OKLAHOMA WING Civil Air Patrol



Cessna 182Q Checklist N735CR

12 December 2004

NORMAL PROCEDURES

| PREFLIGHT CHECK | |
|--|---|
| BEFORE STARTING ENGINE | |
| STARTING ENGINE | |
| TAXI | |
| BEFORE TAKEOFF | N-6 |
| NORMAL TAKEOFF | |
| SHORT FIELD TAKEOFF | N-7 |
| ENROUTE CLIMB | N-7 |
| CRUISE | N-8 |
| DESCENT | |
| BEFORE LANDING | N-8 |
| NORMAL LANDING | |
| SHORT FIELD LANDING | |
| GO AROUND | |
| AFTER LANDING | N-10 |
| SECURING AIRCRAFT | N-10 |
| LEAVING AIRCRAFT | |
| | |
| EMEDOENCY DROCEDURE | - |
| | |
| EMERGENCY PROCEDURE | -5 |
| | _ |
| ENGINE FAILURE DURING TAKEOFF ROLL | E-1 |
| ENGINE FAILURE DURING TAKEOFF ROLL ENGINE FAILURE IMMEDIATELY AFTER TAKEO | E-1 FF E-1 |
| ENGINE FAILURE DURING TAKEOFF ROLL ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF ROLL | E-1 FF E-1 E-1 |
| ENGINE FAILURE DURING TAKEOFF ROLL ENGINE FAILURE IMMEDIATELY AFTER TAKEOI ENGINE FAILURE DURING FLIGHT (RESTART) EMERGENCY LANDING WITHOUT POWER | E-1 FF E-1 E-1 E-2 |
| ENGINE FAILURE DURING TAKEOFF ROLL ENGINE FAILURE IMMEDIATELY AFTER TAKEOR ENGINE FAILURE DURING FLIGHT (RESTART) EMERGENCY LANDING WITHOUT POWER PRECAUTIONARY LANDING WITH POWER | E-1 FF E-1 E-1 E-2 E-2 |
| ENGINE FAILURE DURING TAKEOFF ROLL ENGINE FAILURE IMMEDIATELY AFTER TAKEOR ENGINE FAILURE DURING FLIGHT (RESTART) EMERGENCY LANDING WITHOUT POWER PRECAUTIONARY LANDING WITH POWER | E-1 FF E-1 E-1 E-2 E-2 |
| ENGINE FAILURE DURING TAKEOFF ROLL ENGINE FAILURE IMMEDIATELY AFTER TAKEOR ENGINE FAILURE DURING FLIGHT (RESTART) EMERGENCY LANDING WITHOUT POWER PRECAUTIONARY LANDING WITH POWER DITCHING | E-1 FF E-1 E-1 E-2 E-3 E-4 |
| ENGINE FAILURE DURING TAKEOFF ROLL ENGINE FAILURE IMMEDIATELY AFTER TAKEOR ENGINE FAILURE DURING FLIGHT (RESTART) EMERGENCY LANDING WITHOUT POWER PRECAUTIONARY LANDING WITH POWER DITCHING ENGINE FIRE DURING START | E-1 FF E-1 E-2 E-2 E-3 E-4 |
| ENGINE FAILURE DURING TAKEOFF ROLL ENGINE FAILURE IMMEDIATELY AFTER TAKEOR ENGINE FAILURE DURING FLIGHT (RESTART) EMERGENCY LANDING WITHOUT POWER PRECAUTIONARY LANDING WITH POWER DITCHING ENGINE FIRE DURING START ENGINE FIRE IN FLIGHT | E-1 FF E-1 E-2 E-2 E-3 E-4 E-4 |
| ENGINE FAILURE DURING TAKEOFF ROLL ENGINE FAILURE IMMEDIATELY AFTER TAKEOR ENGINE FAILURE DURING FLIGHT (RESTART) EMERGENCY LANDING WITHOUT POWER PRECAUTIONARY LANDING WITH POWER DITCHING ENGINE FIRE DURING START ENGINE FIRE IN FLIGHT ELECTRICAL FIRE IN FLIGHT | E-1 FF E-1 E-2 E-2 E-3 E-4 E-4 E-5 |
| ENGINE FAILURE DURING TAKEOFF ROLL ENGINE FAILURE IMMEDIATELY AFTER TAKEOR ENGINE FAILURE DURING FLIGHT (RESTART) EMERGENCY LANDING WITHOUT POWER PRECAUTIONARY LANDING WITH POWER DITCHING ENGINE FIRE DURING START ENGINE FIRE IN FLIGHT ELECTRICAL FIRE IN FLIGHT CABIN FIRE | E-1 FF E-1 E-2 E-2 E-3 E-4 E-4 E-5 E-5 |
| ENGINE FAILURE DURING TAKEOFF ROLL ENGINE FAILURE IMMEDIATELY AFTER TAKEOR ENGINE FAILURE DURING FLIGHT (RESTART) EMERGENCY LANDING WITHOUT POWER PRECAUTIONARY LANDING WITH POWER DITCHING ENGINE FIRE DURING START ENGINE FIRE IN FLIGHT ELECTRICAL FIRE IN FLIGHT CABIN FIRE WING FIRE | E-1 FF E-1 E-2 E-2 E-3 E-4 E-4 E-5 E-5 |
| ENGINE FAILURE DURING TAKEOFF ROLL ENGINE FAILURE IMMEDIATELY AFTER TAKEOR ENGINE FAILURE DURING FLIGHT (RESTART) EMERGENCY LANDING WITHOUT POWER PRECAUTIONARY LANDING WITH POWER DITCHING ENGINE FIRE DURING START ENGINE FIRE IN FLIGHT ELECTRICAL FIRE IN FLIGHT CABIN FIRE WING FIRE UING STATIC SOURCE BLOCKAGE | E-1 FF E-1 E-2 E-2 E-3 E-4 E-4 E-5 E-6 E-6 |
| ENGINE FAILURE DURING TAKEOFF ROLL ENGINE FAILURE IMMEDIATELY AFTER TAKEOR ENGINE FAILURE DURING FLIGHT (RESTART) EMERGENCY LANDING WITHOUT POWER PRECAUTIONARY LANDING WITH POWER DITCHING ENGINE FIRE DURING START ENGINE FIRE IN FLIGHT ELECTRICAL FIRE IN FLIGHT CABIN FIRE WING FIRE ICING STATIC SOURCE BLOCKAGE LANDING WITH FLAT MAIN TIRE | E-1 FF E-1 E-2 E-2 E-3 E-4 E-5 E-5 E-6 E-6 |
| ENGINE FAILURE DURING TAKEOFF ROLL ENGINE FAILURE IMMEDIATELY AFTER TAKEOR ENGINE FAILURE DURING FLIGHT (RESTART) EMERGENCY LANDING WITHOUT POWER PRECAUTIONARY LANDING WITH POWER DITCHING ENGINE FIRE DURING START ENGINE FIRE IN FLIGHT ELECTRICAL FIRE IN FLIGHT CABIN FIRE WING FIRE UING STATIC SOURCE BLOCKAGE | E-1 FF E-1 E-2 E-2 E-3 E-4 E-5 E-5 E-6 E-6 |

Cessna 182Q Checklist

PREFLIGHT INSPECTION

CABIN

- 1. Pitot Tube Cover REMOVE, check opening for blockage
- 2. Documents (AROW) AVAILABLE IN THE AIRPLANE
- 3. OKWG Form 781A CHECK
- 4. OKWG Form 781 ENTER Hobbs and Tach Times
- 5. Parking Brake SET
- 6. Control Wheel Lock REMOVE
- 7. Ignition Switch OFF, Key removed
- 8. Avionics Power Switch OFF
- 9. Master Switch ON

WARNING

When turning on the master switch, using an external power source, or pulling the propeller through by hand, treat the propeller as if the ignition switch were on. Do not stand, nor allow anyone else to stand, within the arc of the propeller, since a loose or broken wire or a component malfunction could cause the propeller to rotate. Hand propped starts are prohibited by CAPR 60-1.

- 10. Fuel Quantity Indicators CHECK QUANTITY
- 11. Low-Vacuum Warning Light CHECK ON
- 12. Avionics Power Switch ON
- 13. Avionics Cooling Fan CHECK AUDIBLY FOR OPERATION
- 14. Avionics Power Switch OFF
- 15. Flaps EXTEND
- 16. Pitot Heat ON (Carefully check that pitot tube is warm to touch within 30 seconds)
- 17. Stall Warning Vane CHECK for freedom of movement (horn should sound when vane is pushed upward).

- 18. Beacon, Nav, Stobe, Landing, Taxi, Pulse Lights CHECK
- 19 Pitot Heat OFF
- 20. Master Switch OFF
- 21. Static Pressure Alternate Source Valve OFF
- 22. Fuel Selector Valve BOTH
- 23. Baggage Compartment INVENTORY and SECURE CONTENTS Tow bar, Chocks, Pitot Tube Cover, Ladder, First Aid kit, Tie Down Straps and Ropes, Survival Kit, Fuel Sampler, Cleaning Materials, 1 QT Oil, Landing/Taxi Light Bulbs, Avionics Control Lock.
- 24. Baggage Door CHECK (Lock with Key)

EMPENNAGE

- Rudder Gust Lock REMOVE
- 2. Tail Tie-Down DISCONNECT
- Control Surfaces CHECK freedom of movement and security
- 4. Trim Tab CHECK security
- Antennas CHECK for security of attachment and general condition

RIGHT WING Trailing Edge

- 1. Aileron CHECK freedom of movement and security
- 2. Flap CHECK for security and condition

RIGHT WING

- 1. Nav and Strobe Light CHECK VISUALLY
- 2. Wing Tie-Down DISCONNECT
- 3. Main Wheel Tire CHECK for proper inflation (42 PSI)
- 4. Fuel Tank Sump Drain Valve DRAIN small amount, check for water, sediment and proper fuel grade
- 5. Fuel Quantity CHECK VISUALLY for desired level
- 6. Drained Fuel RETURN uncontaminated fuel to tank
- 7. Fuel Filler Cap SECURE

NOSE

- Engine Oil Dipstick/Filler Cap CHECK oil level, do not operate with less than 9 quarts. Fill to 12 quarts for extended flight
- 2. Fuel Strainer Drain Knob PULL OUT for 4 seconds, check for water, sediment. CHECK Strainer Drain CLOSED
- 3. Propeller and spinner CHECK for nicks, security, oil leaks
- Landing Lights CHECK for condition and cleanliness of covers
- 5. Carburetor Air Filter CHECK for restrictions by dust
- 6. Nose wheel Strut and Tire CHECK for proper inflation (49 PSI)
- 7. Nose Tie Down DISCONNECT
- 8. Static Source Openings (both sides of fuselage) CHECK for blockage

LEFT WING

- 1. Fuel Tank Sump Drain Valve DRAIN small amount, check for water, sediment and proper fuel grade
- 2. Fuel Quantity CHECK VISUALLY for desired level
- 3. Drained Fuel RETURN uncontaminated fuel to tank
- 4. Fuel Filler Cap SECURE
- 5. Main Wheel Tire CHECK for proper inflation (42 PSI)

LEFT WING Leading Edge

- 1. Fuel Tank Vent Opening CHECK for blockage
- 2. Wing Tie-Down DISCONNECT
- 3. Nav and Strobe Light CHECK VISUALLY

LEFT WING Trailing Edge

- 1. Aileron CHECK freedom of movement and security
- 2. Flap CHECK for security and condition

BEFORE STARTING ENGINE

- 1. Preflight Inspection COMPLETE
- 2. Chocks, Tiedowns, and Tow Bar RECHECK REMOVED
- Passenger Briefing COMPLETE
 Seat Belt Usage
 Emergency Egress procedures
 Fire Extinguisher Location

Fire On Start Procedures

No Tobacco Use

Crew Comfort Items

- 4. Seats, Belts, Shoulder Harnesses ADJUST and LOCK
- 5. Brakes TEST and SET
- 6. Avionics Power Switch OFF

CAUTION

The avionics power switch must be off during engine start to prevent possible damage to avionics

- 7. Circuit Breakers CHECK IN
- 8. Cowl Flaps OPEN (move lever out of locking hole to reposition)
- 9. Fuel Selector Valve BOTH
- 10. Rotating Beacon ON

STARTING ENGINE

- 1. Prime AS REQUIRED (2 to 6 strokes, none if engine is warm)
- 2. Carburetor Heat COLD
- 3. Propeller HIGH RPM
- 4. Throttle OPEN 1/2 INCH
- 5. Mixture RICH
- 6. Propeller Area CLEAR
- 7. Master Switch ON
- 8. Ignition Switch START (RELEASE when engine starts)

NOTE

If engine has been overprimed, start with throttle 1/4 to 1/2 open. Reduce throttle to idle when engine fires.

- 9. Oil Pressure CHECK
- 10. Ammeter CHECK
- 11. Avionics Power Switch ON
- 12. Navigation Lights ON as required
- 13. Radios ON
- 14. Flaps UP
- 15. Engine LEAN for Taxi

TAXI

- 1. Brakes CHECK
- 2. Nose Wheel Steering CHECK
- 3. Cross Wind Controls APPLY

BEFORE TAKEOFF

- 1. Parking Brake SET
- Seats, Seat Belts, Shoulder Harnesses SECURE
- Cabin Doors CLOSED and LOCKED
- 4. Flight Controls FREE and CORRECT
- 5. Flight Instruments CHECK and SET
- 6. Fuel Quantity CHECK
- 7. Primer IN and Locked
- 8. Mixture RICH
- 9. Fuel Selector Valve RECHECK BOTH
- 10. Elevator and Rudder Trim SET for Takeoff
- 11. Throttle 1700 RPM
 - a. Magnetos CHECK (RPM drop should not exceed 150 RPM on either magneto or 50 RPM differential between magnetos)
 - b. Propeller CYCLE from high to low RPM, return to high RPM (full in).
 - c. Carburetor Heat CHECK for RPM drop
 - d. Suction Gage CHECK
 - e. Engine Instruments and Ammeter CHECK
- 12. Throttle Check IDLE
- 13. Throttle 1000 RPM or LESS
- 14. Throttle Friction Lock ADJUST
- 15. Radios and Avionics SET
- 16. Wing Flaps SET for Takeoff
- 17. Takeoff Checklist REVIEWED Vr 50 KIAS Vx 54 KIAS Vy 78 KIAS Best Glide 70 KIAS Heading/Altitude After Takeoff - REVIEW
- 18. Takeoff Emergencies Briefing COMPLETE ENGINE FAILURE OR SYSTEM MALFUNCTION Before Vr: Stop Aircraft on Runway After Vr: Land on remaining runway or straight ahead with Only small turns. Flaps as necessary to slow touchdown speed.
- 19. Autopilot (if installed) OFF
- 20. Transponder SET and ALT
- 21. Strobe Lights AS DESIRED
- 22. Pulse Light ON
- 23. Brakes RELEASE

TAKEOFF

Normal Takeoff

- 1. Wing Flaps 0° 20°
- 2. Carburetor Heat COLD
- Throttle FULL OPEN and 2400 RPM
- 4. Elevator Control LIFT NOSE WHEEL (at 50 KIAS)
- 5. Climb Speed 70 KIAS (Flaps 20) - 80 KIAS (Flaps UP)

Short Field Takeoff

- 1. Wing Flaps 20°
- 2. Carburetor Heat COLD
- Brakes APPLY
- 4. Throttle FULL OPEN and 2400 RPM
- 5. Mixture RICH (Above 3000 feet, LEAN to obtain MAX RPM)
- 6. Brakes RELEASE
- 7. Elevator Control SLIGHTLY TAIL LOW
- 8. Climb Speed 57 KIAS (Until all obstacles are cleared)
- 9. Wing Flaps RETRACT slowly after reaching 70 KIAS

ENROUTE CLIMB

- 1. Airspeed 85-95 KIAS
- 2. Power 23 INCHES Hg and 2400 RPM
- 3. Fuel Selector Valve BOTH
- 4. Mixture RICH (mixture may be leaned above 5000 feet).
- 5. Cowl Flaps OPEN as required

CRUISE

- 1. Power 15 to 23 INCHES Hg, 2100-2400 RPM (no more than 75% is recommended)
- Elevator and Rudder Trim ADJUST
- Mixture LEAN
- Cowl Flaps CLOSED

DESCENT

- 1. Fuel Selector Valve BOTH
- Power AS DESIRED
- 3. Mixture ENRICHEN as required
- 4. Cowl Flaps CLOSED
- 5. Carburetor Heat FULL HEAT AS REQUIRED
- 6. Wing Flaps AS DESIRED (0° 10° below 140 KIAS, 10° 40° below 95 KIAS)

BEFORE LANDING

- 1. Seats, Seat Belts, Shoulder Harnesses SECURE
- 2. Fuel Selector Valve BOTH
- 3. Undercarriage CHECK
- 4. Mixture RICH
- Carburetor Heat ON (apply full heat before reducing power)
- 6. Propeller High RPM
- 7. Autopilot (if installed) OFF

LANDING

Normal Landing

- 1. Airspeed 70-80 KIAS (Flaps UP)
- 2. Wing Flaps AS DESIRED (0°-10° below 140 KIAS, 10°-40° below 95 KIAS)
- 3. Airspeed 60-70 KIAS (Flaps DOWN)
- 4. Trim ADJUST
- 5. Touchdown MAIN WHEELS FIRST
- 6. Landing Roll LOWER NOSE WHEEL GENTLY
- 7. Braking MINIMUM REQUIRED

Short Field Landing

- 1. Airspeed 70-80 KIAS (Flaps UP)
- 2. Wing Flaps FULL DOWN (0°-10° below 140 KIAS, 10°-40° below 95 KIAS)
- 3. Airspeed 60 KIAS
- 4. Trim ADJUST
- 5. Power REDUCE to Idle after clearing obstacle
- 6. Touchdown MAIN WHEELS FIRST
- 7. Brakes APPLY HEAVILY
- 8. Wing Flaps RETRACT for maximum brake effectiveness

GO AROUND

- 1. Power FULL THROTTLE and 2400 RPM
- Carburetor Heat COLD
- 3. Wing Flaps Retract to 20°
- 4. Climb Speed 55 KIAS
- 5. Wing Flaps RETRACT slowly after reaching 70 KIAS
- 6. Cowl Flaps OPEN

AFTER LANDING

- 1. Carburetor Heat COLD
- 2. Wing Flaps UP
- 3. Cowl Flaps OPEN
- 4. Transponder STBY 1200
- 5. Trim NEUTRAL
- 6. Nav, Strobe, Pulse Lights AS REQUIRED
- 7. VHF 121.5 CHECK for ELT

SECURING AIRPLANE

- 1. Parking brake SET
- 2. Avionics Power Switch, Electrical Equipment OFF
- 3. Autopilot (if installed) OFF
- 4. Throttle 1000 RPM
- 5. Mixture IDLE CUT-OFF (pull full out)
- 6. Throttle IDLE
- 7. Ignition Switch OFF
- 8. Master Switch OFF
- 9. Fuel Selector Valve RIGHT
- 10. Avionics Control Lock INSTALL
- 11. Pitot Tube Cover INSTALL
- 12. Chocks INSTALL
- 13. Parking Brake RELEASE
- 14. Aircraft Doors and Baggage Compartment LOCK with Key

LEAVING AIRCRAFT

- 1. Flight Plan CLOSED
- 2. Form 781 COMPLETED
- 3. Form 781A DISCREPANCIES NOTED
- 4. Flight Release Officer REPORT

EMERGENCY CHECKLIST

ENGINE FAILURES

ENGINE FAILURE DURING TAKEOFF ROLL

- 1. THROTTLE IDLE
- 2. BRAKES APPLY
- 3. Wing Flaps RETRACT
- 4. Mixture IDLE CUT-OFF
- 5. Ignition Switch OFF
- 6. Master Switch OFF

ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

- 1. AIRSPEED 70 KIAS (FLAPS UP) 65 KIAS (FLAPS DOWN)
- Mixture IDLE CUT-OFF
- 3. Fuel Selector Valve OFF
- 4. Ignition Switch OFF
- 5. Wing Flaps AS REQUIRED (40° recommended)
- 6. Master Switch OFF

ENGINE FAILURE DURING FLIGHT (RESTART PROCEDURES)

- 1. AIRSPEED 70 KIAS
- 2. CARBURETOR HEAT ON
- 3. FUEL SELECTOR VALVE BOTH
- 4. Mixture RICH
- 5. Ignition Switch BOTH (or START if propeller is stopped)
- 6. Primer IN and LOCKED

FORCED LANDINGS

EMERGENCY LANDING WITHOUT ENGINE POWER

- 1. AIRSPEED 70 KIAS (Flaps UP) 65 KIAS (Flaps DOWN)
- 2. Mixture IDLE CUT-OFF
- Fuel Selector Valve OFF
- 4. Ignition Switch OFF
- 5. Wing Flaps AS REQUIRED (40° recommended)
- Master Switch OFF
- Doors UNLATCH PRIOR TO TOUCHDOWN
- Touchdown SLIGHTLY TAIL LOW
- Brakes APPLY HEAVILY

PRECAUTIONARY LANDING WITH ENGINE POWER

- 1. Wing Flaps 20°
- 2. Airspeed 65 KIAS
- 3. Selected Field FLY OVER, noting terrain and obstructions, then retract flaps upon reaching a safe altitude and airspeed.
- 4. Radios and Electrical Switches OFF
- 5. Wing Flaps 40° (on final approach)
- 6. Airspeed 65 KIAS
- 7. Master Switch OFF
- Doors UNLATCH PRIOR TO TOUCHDOWN
- 9. Touchdown SLIGHTLY TAIL LOW
- 10. Ignition Switch OFF
- 11. Brakes APPLY HEAVILY

DITCHING

- 1. Radio TRANSMIT MAYDAY on 121.5, giving location and intentions and SQUAWK 7700
- 2. Heavy Objects (in baggage area) SECURE or JETTISON
- 3. Approach High Winds, Heavy Seas INTO THE WIND Light Winds, Heavy Swells PARALLEL TO SWELLS
- 4. Wing Flaps 20° to 40°
- 5. Power ESTABLISH 300 FT/MIN DESCENT AT 60 KIAS

NOTE

If no power is available, approach at 70 KIAS with flaps up or at 65 KIAS with 10° Flaps

- 6. Cabin Doors UNLATCH
- 7. Touchdown LEVEL ATTITUDE AT ESTABLISHED RATE OF DESCENT
- 8. Face CUSHION at touchdown with folded coat
- Airplane EVACUATE through cabin doors. If necessary, open window and flood cabin to equalize pressure so doors can be opened
- 10. Life Vests and Raft INFLATE

FIRES

DURING START ON GROUND

1. **CRANKING - CONTINUE** to get a start to suck the flames and accumulated fuel through the carburetor into engine.

If the engine starts:

- 2. Power 1700 RPM for a few minutes
- 3. Engine SHUTDOWN and inspect for damage

If engine fails to start:

- 4. THROTTLE FULL OPEN
- 5. MIXTURE IDLE CUT-OFF
- 6. CRANKING CONTINUE
- 7. Fire Extinguisher OBTAIN (have ground attendants obtain if not installed)
- 8. Engine SECURE
 - a. Master Switch OFF
 - b. Ignition Switch OFF
 - c. FUEL SELECTOR VALVE OFF
- Fire EXTINGUISH using fire extinguisher, wool blanket, or dirt
- 10. Fire Damage INSPECT

ENGINE FIRE IN FLIGHT

- 1. MIXTURE IDLE CUT-OFF
- 2. FUEL SELECTOR VALVE OFF
- 3. MASTER SWITCH OFF
- 4. Cabin Heat and Air OFF (except overhead vents)
- Airspeed 100 KIAS (If fire is not extinguished, increase glide speed to find an airspeed which will provide an incombustible mixture)
- 6. Forced Landing EXECUTE (Emergency Landing Without Engine Power)

E-4

ELECTRICAL FIRE IN FLIGHT

- 1. MASTER SWITCH OFF
- 2. VENTS/CABIN AIR/HEAT CLOSED
- 3. FIRE EXTINGUISHER ACTIVATE

WARNING

After discharging an extinguisher within a closed cabin, ventilate the cabin

4. All Other Switches (except ignition switch) - OFF

If fire appears out and electrical power is necessary for continuance of flight:

- Master Switch ON
- 6. Circuit Breakers CHECK for faulty circuit, do not reset
- 7. Radio/Electrical Switches ON one at a time, with delay after each until short circuit is localized
- 8. Vents/Cabin Air/Heat OPEN when it is ascertained that the fire is completely extinguished

CABIN FIRE

- 1. MASTER SWITCH OFF
- 2. VENTS/CABIN AIR/HEAT CLOSED
- 3. FIRE EXTINGUISHER ACTIVATE

WARNING

After discharging an extinguisher within a closed cabin, ventilate the cabin

4. Land the airplane as soon as possible to inspect for damage

WING FIRE

- 1. LANDING/TAXI/PULSE LIGHT SWITCHES OFF
- 2. **PITOT HEAT SWITCH OFF**
- 3. NAVIGATION LIGHT SWITCH OFF
- 4. STROBE LIGHT SWITCH OFF

NOTE

Perform a sideslip to keep the flames away from the fuel tank and cabin, and land as soon as possible using flaps only as required for final approach and touchdown

ICING

INADVERTENT ICING ENCOUNTER

- 1. TURN PITOT HEAT SWITCH ON
- 2. **TURN BACK OR CHANGE ALTITUDE** to obtain an outside air temperature that is less conducive to icing
- 3. PULL CABIN HEAT CONTROL FULL OUT AND OPEN DEFROSTER OULETS to obtain maximum windshield defroster airflow. Adjust cabin air control to get maximum defroster heat and airflow
- 4. Open the throttle to increase engine speed and minimize ice build-up on propeller blades
- 5. Watch for signs of carburetor air filter ice and apply carburetor heat as required. An unexplained loss in engine speed could be caused by carburetor ice or air intake filter ice. Lean the mixture for maximum RPM, if carburetor heat is used continuously
- 6. Plan a landing at the nearest airport. With an extremely rapid ice build-up, select a suitable "off airport" landing site
- 7. With an ice accumulation of 1/4 inch or more on the wing leading edges, be prepared for significantly higher stall speed

CONTINUED on Page E-7

INADVERTENT ICING ENCOUNTER (CONTINUED)

- 8. Leave wing flaps retracted. With a severe ice build-up on the horizontal tail, the change in wing wake airflow direction caused by wing flap extension could result in a loss of elevator effectiveness
- 9. Open left window and, if practical, scrape ice from the portion of the windshield for visibility in the landing approach
- 10. Perform a landing approach using a forward slip, if necessary, for improved visibility
- 11. Approach at 80 to 90 KIAS depending upon the amount of the accumulation
- 12. Perform a landing in level attitude

STATIC SOURCE BLOCKAGE

(Erroneous Instrument Reading Suspected)

1. STATIC PRESSURE ALTERNATE SOURCE VALVE - PULL ON

NOTE

In an emergency on airplanes not equipped with an alternate static source, cabin pressure can be supplied to the static pressure instruments by breaking the glass on the face of the vertical speed indicator

- 2. Airspeed Consult appropriate calibration tables in sect. 5
- 3. Altitude Cruise 50 feet higher and approach 30 feet higher than normal.

LANDING WITH A FLAT MAIN TIRE

- 1. Approach NORMAL
- Wing Flaps FULL DOWN
- 3. Touchdown GOOD TIRE FIRST, hold airplane off flat tire as long as possible with aileron control

ELECTRICAL POWER SUPPLY SYSTEM MALFUNCTIONS

AMMETER SHOWS DISCHARGE

- 1. Alternator OFF
- 2. Alternator Circuit Breaker PULL
- 3. Nonessential Radio and Electrical Equipment OFF
- 4. Flight TERMINATE as soon as practical

OVER-VOLTAGE LIGHT ILLUMINATES DURING FLIGHT

- Master Switch OFF (both sides)
- 2. Master Switch ON
- 3. Over-Voltage Light OFF

If Over-Voltage Light illuminates again:

- 4. Nonessential Radio and Electrical Equipment OFF
- 5. Flight TERMINATE as soon as practical