

INTERIOR:

1. Form 781.....CHECK
2. Control Lock.....REMOVE
3. Landing Gear Handle.....DOWN
4. Throttle.....IDLE
5. Mixture.....CUT OFF
6. All Switches.....OFF
7. Battery Switch.....ON
8. Fuels Quantity.....CHECK
9. Warning Lights.....CHECK
10. Exterior Lights.....CHECK
11. Battery Switch.....OFF
12. Landing Gear Emergency Valve.....
..... CLOSED (Vertical)
13. Flaps.....DOWN
14. Drain Tool.....OBTAIN

EXTERIOR:**LEFT WING:**

1. Flap.....CHECK
2. Fuel Vent Line.....UNOBSTRUCTED
3. Aileron.....CHECK
4. Wing Tip and Light.....CHECK
5. Pitot Tube.....CHECK (Remove Cover)
6. Landing/Taxi Light.....CHECK
7. Stall Warning.....CHECK
8. Fuel Tank Quantity.....CHECK (Cap Secure)
9. Tiedown/Chocks.....REMOVE
10. Tire, Wheel, and Brake.....CHECK
11. Fuel Sump.....DRAIN

NOSE SECTION:

1. Left Cowl.....SECURE
2. Fuel Vent Line.....UNOBSTRUCTED
3. Propeller.....CHECK
4. Tire and Nose Gear.....CHECK
5. Alternator Belt.....CHECK
6. Engine Oil.....CHECK.(6 Qts Minimum)
7. Oil Filter Cap.....SECURE
8. Right Cowl and Inspection Door.....SECURE
9. Fuel Strainer.....DRAIN

RIGHT WING:

1. Fuel Sump.....DRAIN
2. Tiedown/Chocks/Ground.....REMOVE
3. Tire, Wheel and Brake.....CHECK
4. Fuel Quantity.....CHECK
5. Taxi Light.....CHECK
6. Wing Tip and Light.....CHECK
7. Aileron.....CHECK
8. Flap.....CHECK
9. Flap Vent Line.....CHECK

RIGHT FUSELAGE:

1. Static Port.....UNOBSTRUCTED
2. Underside.....CHECK

EMPANNAGE:

1. Control Surfaces.....CHECK
2. Position Lights.....CHECK

LEFT FUSELAGE

1. Static Port.....UNOBSTRUCTED
2. All Antennas.....CHECK
3. Baggage Door.....SECURE
4. Underside.....CHECK

BEFORE STARTING

1. Doors.....CLOSED
2. Passengers.....BRIEF
3. Seats.....POSITION AND LOCK
4. Seat Belt and Shoulder Harness.....FASTEN
5. Circuit Breakers.....IN
6. Landing Gear Switch.....DOWN
7. Battery and Alternator Switches.....ON
8. Fuel Selector Valve.....FULLEST TANK

COLD START

1. Mixture.....RICH
2. Propeller.....FULL FORWARD
3. Throttle.....OPEN 1/4 INCH
4. Propeller Area.....CLEAR
5. Brakes.....HOLD
6. Start Switch.....START

HOT START

1. Mixture.....CUT OFF
2. Propeller.....FULL FORWARD
3. Throttle.....OPEN 2 INCHES
4. Propeller Area.....CLEAR
5. Brakes.....HOLD
6. Start Switch.....START
7. Mixture.....RICH (AS ENGINE FIRES)
8. Throttle.....RETARD(TO FAST IDLE)

FLOODED START

1. Mixture.....CUT OFF
2. Propeller.....FULL FORWARD
3. Throttle.....FULL OPEN
4. Propeller Area.....CLEAR
5. Brakes.....HOLD
6. Start Switch.....START
7. Mixture.....RICH (AS ENGINE FIRES)
8. ThrottleRETARD (TO FAST IDLE)

AFTER START

1. Oil Pressure.....RISE WITHIN 30 SECONDS
2. Starter Engaged Light.....OFF
3. Throttle.....1000 TO 1200 RPM (WARM UP)
4. Engine Instruments.....CHECK
5. Radios.....ON
6. Transponder.....STANDBY
7. Flaps.....UP
8. Rotating Beacon/Nav LightsON
9. Flight InstrumentsCHECK/SET
10. ATIS/ClearanceOBTAIN

TAXI

1. Brakes.....CHECK
2. Heading Indicator.....CHECK/SET
3. Turn CoordinatorCHECK IN TURN

RUN UP

1. Brakes.....HOLD
2. Fuel.....FULLEST TANK
3. Throttle2000 RPM
4. Engine Instruments.....CHECK
5. Magnetos....CHECK (*100 Max Drop, 25 Max Difference*)
6. Propeller.....EXERCISE
300 400 RPM DROP
MANIFOLD PRESS RISE
OIL PRESSURE FLUX
7. Throttle1000 RPM

BEFORE TAKEOFF

1. TrimSET
2. Flaps.....15 Degrees (*FIRST NOTCH*)
3. Flight Controls.....CHECK
4. Fuel..... FULLEST TANK
5. Mixture.....RICH
6. Propeller.....FULL FORWARD
7. Doors & Windows.....CLOSED
8. Seat Belt & Shoulder Harness.....SECURE
9. Flight Instruments/AvionicsCHECK
10. Take Off ProceduresREVIEW
11. Transponder.....ALT
12. Heading Indicator.....CHECK
13. Takeoff Clearance.....OBTAIN

**NOTE: BOOST PUMP OFF FOR TAKEOFF AND LANDING.
EMERGENCY USE ONLY.**

TAKE OFF

1. Throttle.....FULL OPEN
2. Rotate.....66 KIAS
3. Climb.....71 KIAS/85 KIAS (V_X , V_Y)
4. Landing Gear – Up..(NO MORE USEABLE RUNWAY)
5. Flaps.....UP
6. Gear Lights.....OUT

AIRSPEEDS

- | | |
|----------------------------------|---------|
| V_X | 71 KIAS |
| V_Y | 85 KIAS |
| Best Glide (Clean)..... | 91 KIAS |
| Best Glide (Full Flaps)..... | 74 KIAS |
| Final Approach (Full Flaps)..... | 70 KIAS |
| Final Approach (No Flaps)..... | 75 KIAS |
| IFR Approach Speed..... | 90 KIAS |

CLIMB

1. Power25" @2500 RPM(AT 500 AGL)
2. Airspeed85 KIAS (V_Y)or 96 KIAS (Cruise Climb)
3. Engine Instruments/Ammeter..... CHECK

CRUISE

1. Power..... SET (See Performance Tables)
2. MixtureLEAN

WARNING

IMPROPER LEANING PROCEDURES WILL GREATLY REDUCE ENDURANCE

3. FuelSWITCH TANKS EVERY 30 MINS
4. Engine, Flight Instruments, Ammeter..... CHECK

DESCENT

1. AltimeterSET
2. Fuel.....FULLEST TANK
3. Engine, Instruments, Ammeter.....CHECK
4. Throttle.....15” MINIMUM
5. Mixture.....ENRICH AS REQUIRED
6. Seat Belt & Shoulder Harness.....SECURE
7. Landing Light.....AS REQUIRED

BEFORE LANDING

1. Fuel.....FULLEST TANK
2. Landing Gear Switch.....DOWN
3. Mixture.....FULL RICH
4. Propeller.....FULL FORWARD
5. Landing GearCONFIRM DOWN
6. Flaps.....CHECK
7. Approach Speed.....70 KIAS (FULL FLAPS)
75 KIAS (NO FLAPS)

GO AROUND/MISSED APPROACH

1. Throttle.....FULL
2. Propeller.....FULL FORWARD
3. Landing Gear Switch Up (Positive Climb Rate)UP
4. Flaps..... (FIRST NOTCH)
5. Flaps.....UP
7. Gear LightsOUT

AFTER LANDING CLEAR OF RUNWAY

1. Landing Light/Taxi LightsAS REQUIRED
2. Transponder.....STANDBY
3. Flaps.....UP
4. Unnecessary Radios.....OFF

SHUT DOWN AT FUEL PIT

1. Throttle1000 RPM
2. All Radios/Avonics.....OFF
3. Exterior Lights.....OFF
4. Throttle.....CLOSED
5. Mixture.....CUT OFF
6. MagnetosOFF
7. Battery/Alternator Switches.....OFF
8. Service Aircraft..... Record Aircraft Write-ups
Record Hobbs and Tach
Record Fuel/Oil Quantity
Clean Windows
Remove Trash

STARTING AT FUEL PIT

1. DoorsCLOSED
2. Seat BeltsFASTENED
3. Landing Gear SwitchDOWN
4. Battery/Alternator SwitchesON
5. Mixture.....CUT OFF
6. Throttle.....OPEN 1 INCH
7. Propeller.....CLEAR
8. Brakes.....HOLD
9. IgnitionSTART
10. MixtureRICH (As Engine Fires)
11. Throttle.....1000 RPM
12. Oil Pressure.....CHECK
13. Rotating BeaconON
14. Radio.....ON (Monitor Ground)

SHUT DOWN

1. Throttle1800 RPM/15 seconds
2. RadiosOFF
3. LightsOFF
4. ThrottleCLOSED
5. MixtureOFF
6. MagnetosOFF
7. Battery and Alternator Switches.....OFF
8. Control LockINSTALL
9. Secure AircraftCHOCKS/COVERS/TIEDOWNS
10. Checklist..... Leave on Aircraft Floor OUT OF SUN
11. Flight Plan..... CLOSE

BEECHCRAFT SIERRA: IMPORTANT SPEEDS

V _{S0}	55 KIAS
V _{SI}	65 KIAS
V _X	71 KIAS
V _Y	85 KIAS
V _{FE}	96 KIAS
V _{LE}	135 KIAS (113 KIAS Max for Retraction)
V _A	125 KIAS
V _{NO}	143 KIAS
V _{NE}	168 KIAS
L/D Max	91 KIAS

EMERGENCY PROCEDURESENGINE FIRE ON THE GROUND

1. *FUEL SELECTOR VALVE*.....OFF
2. *THROTTLE*CLOSE
3. *MIXTURE*.....CUT-OFF
4. *Battery And Alternator Switches*OFF
5. *Magnetos*.....OFF
6. *Fire Extinguisher*.....OBTAIN

ENGINE FIRE IN FLIGHT

1. *FUEL SELECTOR VALVE*.....OFF
2. *MIXTURE*.....CUT-OFF
3. *PROP*FORWARD
4. *THROTTLE*CLOSE
5. *Cabin AirPull Off (Red Knob on Left Console)*
6. *Defrost Air*
.....Push Off (Red Knob on Right Console)
7. *Battery And Alternator Switches*OFF
8. *Magnetos*.....OFF
9. **DO NOT ATTEMPT RESTART**

NOTE: THE RED FIREWALL AIR CONTROLS MUST BE CLOSED TO SHUT OFF ALL HEATING SYSTEM OUTLETS TO PREVENT SMOKE AND FUMES FROM ENTERING THE CABIN.

IN-FLIGHT EMERGENCIES

EMERGENCY AIRSPEEDS

- EMERGENCY DESCENT135 KIAS**
- BEST GLIDE.....91 KIAS**
- EMERGENCY LANDING PROCEDURE.....74 KIAS**

ENGINE FAILURE AFTER TAKE-OFF/IN-FLIGHT

- 1. MIXTURE..... FULL RICH**
- 2. FUEL BOOST PUMPON**
- 3. FUEL SELECTOR SWITCH..... OTHER TANK**
- 4. MAGNETOSCHECK (L, R, THEN BOTH)**

IF ENGINE DOES NOT RESTART

- 5. MAX GLIDEESTABLISH (91 KIAS)**
- 6. THROTTLE.....CLOSE**
- 7. PROP.....FULL AFT**
- 8. Mixture.....CUT-OFF**
- 9. Magneto/Starter Switch.....OFF**
- 10. Fuel Selector Valve.....OFF**
- 11. Airspeed.....NORMAL APPROACH SPEED**
- 12. Flaps.....AS REQUIRED**
- 13. Landing Gear.....**
....UP or DOWN (Depending on Landing surface)
- 14. All Electrical Switches.....OFF**
- 15. DoorsUNLATCH PRIOR TO IMPACT**

MAX GLIDE CONFIGURATION

- 1. Landing GearUP**
- 2. Flaps.....UP**
- 3. Prop.....FULL AFT**
- 4. Airspeed.....91 KIAS**

PROPELLER OVERSPEED

- 1. THROTTLE RETARD (Min Cruise RPM)**
- 2. AIRSPEEDREDUCE (Use Pitch if Necessary)**
- 3. Oil PressureCHECK**
- 4. LandSelect Nearest Suitable Site,**
.....Use Engine Failure Procedures

NOTE: LOSS OF OIL MAY CAUSE ENGINE TO SEIZE.

ALTERNATOR FAILURE

- 1. Alternator Switch.....OFF**
- 2. Non-essential Electrical Equipment.....OFF**

LANDING EMERGENCIES

LANDING GEAR FAILURE TO EXTEND

- 1. Airspeed REDUCE TO 87 KIAS**
- 2. Landing Gear Motor Circuit Breaker ...PULL OUT**
- 3. Landing Gear Switch.....DOWN**
- 4. Emergency Extension Valve.....**
.....COUNTER CLOCKWISE TO OPEN

LANDING WITH GEAR RETRACTED (INTERNATIONAL)

- 1. ThrottleCLOSE**
- 2. AirspeedNORMAL APPROACH SPEED**
- 3. Fuel Selector ValveOFF**
- 4. MixtureCUT OFF**
- 5. Flaps.....AS REQUIRED**
- 6. Battery and Alternator SwitchesOFF**
- 7. DoorsUNLATCH PRIOR TO TOUCHDOWN**
- 8. Maintain Level Attitude During Touchdown**
- 9. Egress from Aircraft**