SOLBERG AVIATION CESSNA 152 PROCEDURES and CHECKLIST

PREFLIGHT INSPECTION

Cabin

- 1. AROW
- 2. Aircraft Inspections- CHECKED
- 3. Control Wheel Lock- REMOVE
- 4. Ignition Switch- OFF
- 5. Master Switch- ON (listen for electric gyro)
- 6. Avionics- OFF (ALL)
- 7. Fuel Quantity Indicators- CHECK OPERATION
- 8. Lights- CHECK OPERATION
- 9. Flaps- 30° (10° when below 32°F/0°C)
- 10. Master Switch- OFF
- 11. Fuel shutoff valve- ON

Empennage

- 1. General Condition- CHECK
- 2. Horizontal Stabilizer- CHECK for security
- 3. Elevator- CHECK for free movement + attachment points
- 4. Tail Tie-Down- DISCONNECT
- 5. Vertical Stabilizer- CHECK for security
- 6. Rudder- CHECK for free movement + attachment points
- 7. Trim Tab- CHECK for neutral alignment + attachment

Right Wing

- 1. Flaps- CHECK tracks + push rod
- 2. Aileron- CHECK for free movement, push rod and hinges
- 3. NAV/Strobe Lights- CHECK
- 4. Wing Tie Down- DISCONNECT
- 5. Main Wheel Tire- CHECK for inflation (21 psi) + wear
- 6. Brakes- CHECK pads and for leaking fluid
- 7. Fuel- SUMP and visually CHECK tanks cap

Nose

- 1. Windshield- CHECK and clean if required
- 2. Oil Level- CHECK (4QTS is minimum and 6QTS is maximum)
- 3. Fuel Strainer- PULL check for water + contaminants then CLOSE
- 4. Belly Drain- DRAIN first flight of the day
- 5. Nose Wheel Assembly- CHECK for pressure (30 psi) + attachment pts
- 6. Propeller + Spinner- CHECK for nicks and security
- 7. Alternator Belt- CHECK for cracks and tension
- 8. Air Filter- CHECK for dirt, obstructions
- 9. Landing light- CHECK condition + cleanliness
- 10. Nose Wheel Strut- CHECK for proper inflation
- 11. Static Source Opening- CHECK for stoppage

Left Wing

- 1. Main Wheel Tire- CHECK for inflation (21 psi) + wear
- 2. Brakes- CHECK for pad wear + leaking fluid
- 3. Fuel- SUMP and visually CHECK tanks cap
- 4. Pitot Tube Cover- REMOVE
- 5. Stall Warning Opening- CHECK for blockage
- 6. Fuel Tank Vent Opening- CHECK for blockage
- 7. Wing Tie Down- DISCONNECT
- 8. NAV/Strobe Lights- CHECK
- 9. Aileron- CHECK for free movement, push rod and hinges
- 10. Flaps- CHECK tracks + push rod

CALCULATE AND SUPPLY FUEL FOR PLANNED FLIGHT ASSURE ALL TIE DOWNS, CHOCKS, COVERS, AND PLUGS ARE REMOVED!

EMERGENCY PROCEDURES

ENGINE FAILURES

RESTART PROCEDURE

- 1. Airspeed- 60 KIAS (Best Glide)
- 2. Carburetor Heat- ON
- 3. Fuel Shutoff Valve- ON
- 4. Mixture-RICH
- 5. Ignition Switch- BOTH or START if prop is stopped
- 6. Primer- IN an LOCKED
- 7. EMERGENCY- DECLARE

FORCED LANDING/SECURE

- 1. Seats, Seat Belt, Shoulder Harnesses- SECURE
- 2. Airspeed- 65KIAS (Flaps UP) 60KIAS (Flaps DOWN)
- 3. Mixture- IDLE CUTOFF
- 4. Fuel Shutoff Valve- OFF
- 5. Ignition Switch- OFF
- 6. Wing Flaps- AS REQUIRED
- 7. Master Switch- OFF
- 8. Doors- UNLATCH PRIOR TO TOUCHDOWN
- 9. Touchdown-SLIGHTLY TAIL LOW
- 10. Brakes- APPLY HEAVILY

ENGINE FIRE IN FLIGHT

- 1. Mixture- IDLE CUTOFF
- 2. Fuel Shutoff Valve- OFF
- 3. Master Switch- OFF
- 4. Cabin Heat and Air- OFF
- 5. Airspeed- 100KIAS (adjust glide speed to provide incombustible mixture for fire)
- 6. FORCED LANDING- EXECUTE

ENGINE FIRE DURING START ON GROUND

- 1. Cranking- CONTINUE
- 2. If Started-1700 RPM
- 3. If Start Fails:
- 4. Throttle- FULL OPEN
- 5. Mixture- IDLE CUT-OFF
- 6. Cranking- CONTINUE
- 7. ENGINE- SECURE (Master Switch- OFF, Ignition Switch- OFF)
- 8. Airplane- EVACUATE
- 9. Fire Extinguisher- OBTAIN AND EXTINGUISH FIRE
- 10. Fire Damage- INSPECT AND REPAIR BEFORE FLIGHT

BEFORE STARTING ENGINE

- 1. Preflight Inspection- COMPLETE
- 2. Passenger Briefing- COMPLETE
- 3. Seats, Belts, Shoulder Harness- ADJUST and LOCK
- 4. Fuel Shutoff Valve- ON
- 5. Radios, Electrical Equipment- OFF
- 6. Brakes-TEST and HOLD
- 7. Circuit Breakers- IN

Before Starting Engine Checklist Complete

STARTING ENGINE

- 1. Mixture- RICH
- 2. Carburetor Heat- COLD
- 3. Prime- AS REQUIRED (up to 3 strokes)
- 4. Throttle- CHECK TRAVEL then OPEN 1/4 inch
- 5. Propeller Area- CLEAR (Audibly)
- 6. Master Switch- ON
- 7. Rotating Beacon- ON
- 8. Ignition Switch- START
- 9. Throttle- adjust for 1,000 RPM
- 10. Oil Pressure Check (< 30 seconds)
- 11. Starter Check Disengaged
- 12. Radios/Transponder/Intercom-ON/ALT/ON
- 13. Flaps- UP and verify
- 14. Mixture Lean for Ground Ops
- 15. Exterior Lights As Required

Starting Engine Checklist Complete

BEFORE TAXI

- 1. Weather OBTAIN
- 2. Radios- SET AND CHECK
- 3. Brakes Roll Forward & CHECK

Before Taxi Checklist Complete

BEFORE TAKEOFF "Run-up"

- 1. Nosewheel STRAIGHT
- 2. Brakes- SET
- 3. Seats, Seat Belts, Shoulder Harnesses- CHECK SECURE
- 4. Cabin Doors/Windows- CLOSED & LOCKED
- 5. Flight Controls- FREE and CORRECT
- 6. Flight Instruments- CHECK and SET
- 7. Fuel Shutoff Valve- ON
- 8. Mixture- RICH (below 3000')
- 9. Elevator Trim- SET for takeoff
- 10. Primer- VERIFY IN and LOCKED
- 11. Throttle- 1700 RPM
 - a. Magnetos- CHECK (RPM drop not to exceed 125RPM or 50 RPM between)
 - b. Carb. Heat- ON and CHECK (for RPM drop)
 - c. Engine Instruments, Ammeter- CHECK
 - d. Suction Gage- CHECK (4.5-5.4)

- 12. Throttle- IDLE, Check smooth operation, Carb.
- Heat COLD then 1000RPM
- 13. Mixture LEAN for ground ops
- 14. Radios and avionics- SET
- 15. Throttle Friction Lock- ADJUST

****Lineup Items (prior to taxing onto runway)****

- 15. Takeoff Brief- VSpeeds/EMER. procedures
- 16. Flaps- SET for takeoff
- 17. Mixture- RICH prior to takeoff
- 18. Nav light- ON (ADS-B OUT ON)
- 19. Landing & Strobe light- AS REQUIRED
- 20. Transponder- code 1200 (VFR) and ALT
- 21. Flight Instruments- RECHECK
- 22. Traffic Pattern- Check for Traffic
- 23. Radio-Call

Before Takeoff Checklist Complete

TAKEOFF

** Refer to NORMAL PROCEDURES in POH**

CRUISE

- 1. Power SET (no more than 75% per POH)
- 2. Elevator Trim ADJUST
- 3. Mixture LEAN (above 3000 feet)
- 4. Landing Light OFF (if used)

Cruise Checklist Complete

BEFORE LANDING

- 1. Seats, Seatbelts, Shoulder Harnesses-SECURE
- 2. Mixture-RICH
- 3. Carb. Heat- ON
- 4. Landing Light- ON

GUMPS

Before Landing Checklist Complete

LANDING

** Refer to NORMAL PROCEDURES in POH**

AFTER LANDING

- 1. Carb Heat- COLD
- 2. Wing Flaps- UP
- 3. Trim-RESET TAKEOFF
- 4. Landing Light/ Strobe/ Nav- OFF
- 5. Mixture- LEAN for ground ops

After Landing Checklist Complete

SECURING AIRPLANE (Shutdown)

- 1. Brakes-SET
- 2. Radio, Transponder, Intercom- OFF
- 3. ALL Electrical Equip- OFF except beacon
- 4. Mixture- IDLE CUT- OFF
- 5. Ignition Switch- OFF & remove key
- 6. Master Switch- OFF
- 7. Control Wheel Lock- INSTALL
- 8. Wheel Chocks, Tie Downs, Covers, Plugs-SECURE