

# SOLBERG AVIATION CESSNA 152

## CHECKLIST

Revised 20 SEPTEMBER 2014

### 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 (Night/IFR)
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 – Secure Cap

#### **Nose**

1. Windshield- CHECK and clean if required
2. Oil Level- CHECK
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 + attachment pts
6. Propeller + Spinner- CHECK for nicks and security
7. Alternator Belt- CHECKED 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- Secure 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 (SS-SR/IFR)
9. Aileron- CHECK for free movement, push rod and hinges?
10. Flaps- CHECK tracks + push rod

\*\*\*\*SUFFICIENT FUEL FOR PLANNED FLIGHT\*\*\*\*

ASSURE ALL- TIE DOWNS, CHOCKS, COVERS, AND PLUGS ARE REMOVED!

## **EMERGENCY PROCEDURES**

### **ENGINE FAILURES DURING FLIGHT**

#### **(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 CUT-OFF
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 CUT-OFF
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 CHECK – EXECUTE

### **ENGINE FIRE DURING START ON GROUND**

1. Cranking – CONTINUE
2. If Started – RPM 1700
3. If Start Fails:
4. Throttle – FULL OPEN
5. Mixture – IDLE CUT-OFF
6. Cranking – CONTINUE
7. SECURE CHECKLIST – COMPLETE
8. Fire Extinguisher – OBTAIN AND EXTINGUISH FIRE
9. 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. Circuit Breakers- IN
5. Fuel Shutoff Valve- ON
6. Brakes- TEST and HOLD

### **Before Start Engine Checklist Complete**

## **START ENGINE**

1. Prime- AS REQUIRED (3 - 6 pumps)
  2. Mixture- RICH
  3. Throttle- CHECK TRAVEL then OPEN ¼”
  4. Carburetor Heat- COLD
  5. Master Switch- ON
  6. Rotating Beacon- ON
  7. Propeller Area- CLEAR (Audibly)
  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
- Start Engine Checklist Complete**

## **BEFORE TAXI**

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

### **Checklist complete to Run-up area**

## **BEFORE TAKEOFF “Run-up”**

1. Nosewheel - Straight
2. Brakes- SET
3. Cabin Doors/Windows- Closed & Latched
4. Flight Controls- FREE and CORRECT
5. Flight Instruments- CHECK and SET
6. Fuel Shutoff Valve- ON
7. Mixture- Rich (below 3000’)
8. Elevator trim- TAKEOFF and verify
9. Primer- VERIFY IN & LOCKED
10. Throttle- 1700 RPM verify BRAKES - SET
  - a. Magnetos- CHECK (RPM drop not to exceed 125RPM or 50 RPM between)
  - b. Carb. Heat- CHECK (for RPM Drop)
  - c. Engine Instruments, Ammeter- CHECK
  - d. Suction Gage- CHECK (4.5-5.4)
11. Throttle- IDLE, Carb. Heat ON Check smooth operation then 1000RPM
12. Mixture – Lean for ground ops

## **\*\*\*\*\*Lineup Items\*\*\*\*\***

*(Prior to taxiing onto runway)*

1. Takeoff Brief – VSPEEDS/EMER. procedures
2. Flaps – SET for takeoff
3. Mixture – RICH prior to takeoff
4. Landing, Nav & Strobe light – As Required
5. Transponder – 1200(VFR) and ALT
6. Flight Instruments - RECHECK
7. Traffic Pattern – Check for Traffic
8. Radio – Call

### **Checklist complete until Cruise**

## **CRUISE**

1. Power – Set (no more than 75% per P.O.H)
2. Elevator Trim – Adjust
3. Mixture – Lean (above 3000 feet)
4. Landing Light – Off (if used)

### **Cruise Checklist Complete**

## **BEFORE LANDING**

1. Seats, Seatbelts – Adjust & Locked
2. Mixture – Rich
3. Carb. Heat – On just prior to entering pattern
4. Landing Light – On (if used)

## **GUMPS**

### **Before landing checklist Complete**

## **AFTER LANDING**

1. Wing Flaps- UP
  2. Carb Heat- COLD
  3. Trim- RESET TAKEOFF
  4. Landing Light/ Strobe – OFF (if used)
  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 BCN
4. Mixture- IDLE CUT- OFF
5. Ignition Switch- OFF & remove key
6. Master Switch- OFF
7. Control Wheel Lock- Installed
8. Wheel Chocks - Installed

## **ASSURE ALL TIE DOWNS, COVERS, AND PLUGS ARE INSTALLED**