| PREFLIGHT | START | | | |
|--|---|--|--|--|
| | Brakes Test & Set | | | |
| Weather Density Altitude | Avionics (Radio – Electrical) Off | | | |
| Weight & Balance Flight Plan | Beacon & Navigation Lights On | | | |
| Frequencies & Phone #'s Alternate Airfields | Circuit Breakers In | | | |
| Papers: AROW Airworthiness, Registration, | Fuel On | | | |
| Operating Limits (POH/AFM, Placards), Weight & | Carburetor Heat Off | | | |
| Balance, Pilot Certificate, Current Medical | Prime As Required | | | |
| WALK AROUND - A CRITICAL LOOK FOR | Mixture Rich | | | |
| DAMAGE OR ANYTHING UNUSUAL | Throttle Open 1/2 inch | | | |
| COCKPIT | Brakes Test & Set Again | | | |
| Control Wheel Lock Remove | Propeller Area CLEAR PROP | | | |
| Parking Brake Set | Master Switch On | | | |
| Ignition Off, Key Removed | Ignition Switch Start | | | |
| Master Switch On | Throttle Adjust to 1000 RPM | | | |
| Flaps Extend | Oil Pressure Check Green Avionics On | | | |
| Fuel On, Check Quantity | | | | |
| Low Vacuum Warning Light On | PRE-TAXI & TAXI | | | |
| Cooling Fan Listen | Flaps Up | | | |
| Pitot Heat Test | Avionics/Radios On/Set Frequencies | | | |
| Lights & Strobes Check | Transponder STBY | | | |
| Windows Clean | ATIS or AWOS Listen & Note | | | |
| Hobbs/Tachometer Record Time | Altimeter Set | | | |
| Master Switch Off | Test & Set: Brakes, Compass, Altitude, | | | |
| EXTERIOR | Heading & Turn Indicators and Inclinometer | | | |
| ALWAYS USE THE SAME SEQUENCE | Landing/Taxi Lights As Required | | | |
| Tie-Downs, Chocks, Gust Lock Remove | RUN-UP | | | |
| Pitot & Static Covers Remove | Brakes Set & Hold | | | |
| Fuel Check Quantity, Water, Dirt | Seats, Belts, Harnesses Secure | | | |
| Caps/Drains/Vents OK | Cabin Doors Closed & Latched | | | |
| Oil Check Level | Flight Controls Free & Correct | | | |
| Belts, Engine, Exhaust, Leaks Check | Primer In & Locked | | | |
| Air Intake Clear | Fuel Switch On, Quantity OK | | | |
| Propeller/Spinner Check for Damage | Mixture Rich or Appropriate | | | |
| Stall Warning Test | Elevator Trim Set for Takeoff | | | |
| Ailerons Free & Secure | Throttle 1700 RPM | | | |
| Flaps Secure | Check: | | | |
| Pitot & Static Ports Unobstructed | Magnetos R,B,L,B | | | |
| Fuselage, Antennas Undamaged | (Up to a 125 RPM drop in either | | | |
| Rudder, Elevator, Trim Tab Free & Secure | Magneto or 50 RPM differential) Carburetor Heat On, Off, leave Off | | | |
| Tires, Brakes, Front Strut OK | Suction Gauge Normal (4.5 to 5.4) | | | |
| INTERIOR | Amps/Volts In the Green | | | |
| Inspection & Passenger Briefing Completed | Oil Pressure & Temp. In the Green | | | |
| Brakes Test & Set | Throttle 1000 RPM, Check Idle & Friction | | | |
| Cessna Seat Tracks Secure | Flaps Set for Takeoff, 0° to 10° | | | |
| Belts & Harnesses Secure | Pitot Heat As Required | | | |
| Loose Items Secure | Heading Indicator Adjust to Compass | | | |
| Flight Documents/Charts Organized | Transponder ALT | | | |
| | | | | |

PilotZulu - CESSNA 152 – CHECKLIST

Page 1

| FLIGHT | Fuel On & Sufficient Oil Pressure & Temperature OK | | | |
|---|---|--|--|--|
| FLIGHT | Oil Pressure & Temperature OK Hatches & Harnesses Secure | | | |
| BE READY TO ABORT TAKEOFF | Seat Backs Most Upright Position | | | |
| NORMAL TAKEOFF | Carburetor Heat On | | | |
| | Landing/Taxi Lights On | | | |
| Proper Runway Check Runway Heading Traffic Check | NORMAL LANDING | | | |
| Strobes, Landing Light On when Cleared | | | | |
| Flaps & Trim Set for Takeoff | MixtureRichPowerAs Required | | | |
| Carburetor Heat Off | Airspeed 60-70 KIAS (69-81) Flaps Up | | | |
| Mixture Rich (Above 3,000, Lean) | Extend Flaps As Required, 0° to 30°, | | | |
| Brakes Release | extend below 85 KIAS (98) | | | |
| Throttle Full Open, 2280 RPM + | Final 55-65 KIAS (63-75) Flaps Down | | | |
| Oil Pressure In the Green | Brakes Minimum Required | | | |
| Elevator Rotate at 50 KIAS (58) | SHORT FIELD LANDING | | | |
| Vy/Vx 67/55 KIAS (77/63) | | | | |
| Normal Climb 70-80 KIAS (81-92) | | | | |
| SHORT FIELD | Extend Flaps 30°, extend below 85 KIAS (98) | | | |
| Follow the initial steps from the NORMAL | Final Maintain 54 KIAS (62) | | | |
| TAKEOFF checklist above, then: | Power Reduce to Idle as | | | |
| Flaps 10° | Obstacle is Cleared | | | |
| Brakes Hold & then Release | Brakes Heavy | | | |
| Throttle Full Open | Flaps Retract | | | |
| Elevator Tail Low, Rotate 50 KIAS (58) | GO AROUND | | | |
| Initial Climb Speed 54 KIAS (62) | Throttle Full Open | | | |
| FlapsRetract Slowly After 60 KIAS (69) | Carburetor Heat Off | | | |
| CLIMB | Flaps Retract to 20° | | | |
| Airspeed 65–75 KIAS (75-86) | Airspeed 55 KIAS (63) | | | |
| Throttle Full Open | Flaps Retract Slowly | | | |
| Mixture Rich (Above 3,000, Lean) | AFTER LANDING | | | |
| Engine Instruments Check Landing/Taxi Lights Off | Carburetor Heat Off | | | |
| Flight Plan Call to Open | Pitot Heat Off | | | |
| CRUISE | Flaps Up | | | |
| | Landing/Taxi Light As Required | | | |
| Power 1900-2550 RPM Elevator Trim Adjust | Strobes Off | | | |
| Elevator Trim Adjust Mixture Lean | Transponder STBY | | | |
| Engine & Flight Instruments Consult | Trim Takeoff | | | |
| Altimeter Set QNH | SHUT DOWN | | | |
| Heading Indicator Adjust to Compass | Parking Brake Set if Necessary | | | |
| DESCENT | ELT Listen 121.5 to check that it is Off | | | |
| Carburetor Heat On as Required | Avionics/Electrical/All Lights Off | | | |
| Power Reduce, As Desired | Magnetos Check; R,B,L,B Mixture Idle Cut-Off | | | |
| Mixture Adjust, Full Rich for Idle Power | Ignition Switch Off | | | |
| ATIS/AWOS Listen & Note, Set QNH | Master Switch Off | | | |
| Wind Check Direction & Crosswind | Control Lock Install | | | |
| LANDING CHECKLIST | Hobbs/Tachometer Record | | | |
| Brakes Pressure in Pedals | Chocks, Tie Downs, Pitot Cover Secure | | | |
| Undercarriage Down & Welded | Cabin Doors Secure | | | |
| Mixture, Master, Magnetos Rich, On, Both | Flight Plan Call to Close | | | |
| | | | | |

PilotZulu - CESSNA 152 – CHECKLIST



| | Vents/Cabin Air/Heat Closed | | |
|--|--|--|--|
| EMERGENCIES | Fire Extinguisher Use if Necessary | | |
| | Ventilate After Using Extinguisher | | |
| MAINTAIN CONTROL | IF FIRE APPEARS TO BE OUT: Master On | | |
| POWER LOSS - TAKEOFF | Master On Circuit Breakers Check, but Do Not Reset | | |
| | Radio/Electrical On, one at a time to | | |
| Airspeed 60 KIAS (69) | locate short circuit | | |
| Mixture Idle, Cut-Off Fuel Off | Vents/Cabin Air/ Heat Open when fire is out | | |
| Ignition Switch (Magnetos) Off | | | |
| Flaps As Required | CABIN FIRE – IN FLIGHT | | |
| Master Switch Off | Master Switch Off | | |
| Doors Unlatch | Vents/Cabin Air/Heat Closed | | |
| | Fire Extinguisher Activate and Ventilate | | |
| POWER LOSS - IN FLIGHT | WING FIRE – IN FLIGHT | | |
| ATTEMPT RESTART: | WING FIRE - IN FLIGHT | | |
| Airspeed (Best Glide) 60 KIAS(69) | Navigation Lights, Strobes Off | | |
| Carburetor Heat On | Pitot Heat Off | | |
| Primer In & Locked | Try side slipping to keep flames away from | | |
| Fuel Shutoff Valve On Mixture Rich | fuel tanks and cabin. Land ASAP with Flaps | | |
| Master On | Retracted | | |
| Ignition Switch BOTH (or START if | ICING – IN FLIGHT | | |
| Propeller is stopped) | | | |
| IF RESTART FAILS – FORCED LANDING: | Turn Back or Change AltitudeConsiderPitot HeatOn | | |
| Airspeed (Best Glide) 65 KIAS (75), Flaps Up | Cabin Heat Full | | |
| Note Wind Look for Best Landing Site | Carburetor Heat Use as Required | | |
| Try to be at 1000 feet AGL when Downwind | Throttle Open to Increase Engine Speed | | |
| RadioEmergency CallTransponderSquawk 7700 | & Prevent Buildup on Propeller | | |
| Passenger Brief | Flaps Not Recommended | | |
| Approach 60 KIAS (69), Flaps Down | Final 65 to 75 KIAS (75-86) | | |
| Swats, Belts Harnesses Secure | Stall Speed Will be Higher due to ice Windshield Open Window & Scrape Ice | | |
| Mixture, Fuel, Ignition, Master Off | Windshield Land ASAPOpen Window & Scrape Ice Off Airport If Necessary | | |
| Doors Unlatch | | | |
| Touchdown Tail Low, Near Stall Speed | ENGINE FIRE - GROUND | | |
| Brakes Heavy | Cranking Continue | | |
| ENGINE FIRE - IN FLIGHT | IF ENGINE STARTS: 1700 RPM for a short | | |
| Airanaad <u>85 KIAC (08)</u> | time, shutdown and inspect for damage. | | |
| Airspeed 85 KIAS (98) Increase glide speed to extinguish fire | IF ENGINE FAILS TO START: | | |
| Fuel Shutoff Valve Off | Throttle Full Open | | |
| Master Switch Off | Mixture Idle Cut-Off | | |
| Mixture Idle Cut-Off | Cranking Continue to Attempt a Start | | |
| Cabin Heat & Air (except Upper Vents) Off | Fire Extinguisher Ready Master Switch Off | | |
| Land As Soon As Possible | Ignition (Magnetos) Off | | |
| ELECTRIC FIRE - IN FLIGHT | Fuel Shutoff Switch Off | | |
| | Extinguish Fire Use Extinguisher, | | |
| Ignition (Magnetos) On | Wool Blanket or Dirt | | |
| Master & all other switches Off | Inspect for Damage Repair or Replace | | |
| (Continued – see top of next column) | | | |

PilotZulu - CESSNA 152 – CHECKLIST



| ELECTRICAL PROBLEMS | IMF |
|--|---|
| LOW VOLTAGE LIGHT ILLUMINATES DURING FLIGHT (ammeter – discharge): Radios Off Alternator Circuit Breaker Check that it is In Master Switch (both sides) Cycle Low Voltage Light Check that it is Off Radios On If the light goes on again: Turn alternator side of master switch off, turn nonessential radio & electric off; terminate flight as soon as practical. AMMETER SHOWS EXCESSIVE RATE OF CHARGE (full scale deflection): Alternator Off Alternator Circuit Breaker Pull Nonessential Radio & Electric Off | Climb Climb Stall (Stall (Final J Max S Mane 16 15 13 Never Cross Rotati Norma |
| Terminate flight as soon as practical. USEFUL DATA | Best (Appro |
| Rate of Climb – Sea level715 FPMService Ceiling14,700 FeetTakeoff - total/50 ft obstacle1340 FeetLanding – total/50 foot obstacle1200 FeetMaximum Weight (Ramp)1675 LbsEmpty Weight (varies/each aircraft) 1109 LbsMaximum Useful Load566 LbsFuel Capacity:Stnd. 26 USG (24.5 usable)Large 39 USG (37.5 usable)(unusable fuel is included in empty weight)Oil (included in empty aircraft weight)7 USQFuel Type100 LL (Blue), 100 (Green) | Final <i>J</i> CR Stand Speed RPM 2000 2100 2200 2300 |
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| particular aircraft and on the weather, altitude, terrain, and skill of the pilot. Neither the Corporation nor the authors assume any responsibility for the use of the material contained | KTAS KIAS KCAS |
| herein. | Rule per 1 |

IMPORTANT SPEEDS

| | | KIAS | MPH |
|---------------------------------|------|-------|-------|
| Climb, Best Angle | Vx | 55 | 63 |
| Climb, Best Rate | Vу | 67 | 77 |
| Stall (full flaps) | Vso | 35 | 40 |
| Stall (flaps up) | Vsi | 40 | 46 |
| Final Approach, 30° flaps | Vref | 55-65 | 63-75 |
| Max Speed, flaps | Vfe | 85 | 98 |
| Max Structural Cruise | Vno | 111 | 128 |
| Maneuvering Speed | Va | | |
| 1670 lbs | | 104 | 120 |
| 1500 lbs | | 98 | 113 |
| 1350 lbs | | 93 | 107 |
| Never Exceed | Vne | 149 | 171 |
| Crosswind Landing (max demo) 12 | |) 12 | 14 |
| Rotation | | 50 | 58 |
| Normal Climb | | 65-75 | 75-86 |
| Enroute Climb | | 70-80 | 81-92 |
| Best Glide (1.5nm/1000 ft | .) | 60 | 69 |
| Approach | | 60-70 | 69-81 |
| Final Approach (full flaps) |) | 55-65 | 63-75 |
| | | | |

CRUISE PERFORMANCE

Standard Temperature - 59°F/15°C, No Wind Speed Fairings, 1670 Pounds

M % Power KTAS GPH NMPG 2,000 feet MSL: 00 48% 18.8 81 4.3 00 55% 87 4.7 18.5 62% 00 92 5.1 18 17 00 69% 97 5.7 00 77% 102 6.3 16.2 6,000 feet MSL: 19.1 00 49% 84 4.4 00 56% 19.1 90 4.7 63% 5.2 18.5 00 96 00 70% 101 5.8 17.4 00 78% 106 6.4 16.6 10,000 feet MSL: 00 51% 4.5 19.3 87

94

4.8

19.6

2400 63% 99 5.3 18.7 2500 71% 105 5.8 18.1 KTAS = Knots True Airspeed

KIAS = Knots Indicated Airspeed KCAS = Knots Calibrated Airspeed

57%

Rule of Thumb – KIAS to KTAS, add 2% per 1000' of altitude.

PilotZulu - CESSNA 152 – CHECKLIST