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			

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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			

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	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)			

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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.

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