

<p>INITIAL</p> <p>Weather & Den. Alt. Weight & Balance Performance Req. Flight Plan - File Papers - A.R.O.W. Fuel - Both Control Lock Master - On Flaps - Extend Pitot Heat - Test Lights - Int. / Ext. Fuel Gauges - True Master - Off</p> <p>EXTERIOR SUMMARY <i>After Geographical Check</i></p> <p>Fuel Quantity Fuel Quality Caps/Drains/Vents Engine / Oil / Belt Prop / Air Intake Exhaust System Stall Indicator - Test Surfaces & Controls Pitot & Static Ports Gear / Tires / Brakes Antennas Ties / Chocks Baggage Door Final Walk Around</p> <p>INTERIOR</p> <p>Passenger Brief Hobbs / Tach Time Circuit Breakers Alternate Static Brakes - Pedal Test</p>	<p>START</p> <p>Seat Track/Back-Lock Avionics - Off Autopilot - Off Carb Heat - Off Beacon - On Mixture - Full Rich Throttle - Slight Prime Brakes Prop - Clear Master - On Mags - Start Oil Pressure Lights - As Req. Mixture - As Req.</p> <p>PRE-TAXI / TAXI</p> <p>Seat Belts / Harness Flaps - Up Heat / Vent / Defrost Avionics - On / Set XPDR - STBY ATIS / AWOS Altimeter - Set Radio - Test Taxi Light - As Req. Brakes - Test Attitude Indic. - Test Turn Coord. - Test H.I. / Compass - Test</p>	<p>RUN-UP</p> <p>Brakes - Set Fuel - Both Trim - Takeoff Flight Controls Instruments Mixture - Best Power Primer - In & Lock</p> <p>1700 RPM Mags (R&L) - Test Carb Heat - Test Vacuum Amps / Volts Oil Pressure Oil Temperature Idle - Check Closed Throttle Friction</p> <p>PRE-TAKEOFF</p> <p>Flaps - 0°- 10° Mixture - Best Power Carb Heat - Off <i>Or As Req.</i> Pitot Heat - As Req. H.I. To Compass Doors / Windows XPDR - Alt + Sqwk Landing Light - On Strobes - On Time - Note Brakes - Release</p> <p><i>Abort Plan - Ready!</i></p>	<p>TAKEOFF</p> <p>Full Throttle 2260 RPM (Min) Oil Pressure Rotate * 52 (60) Vy - 71 (82) Flaps - Up</p> <p>CLIMB</p> <p>70-78 (80-90) Power Mixture Instruments Taxi / Land Light - Off Flight Plan - Open</p> <p>CRUISE</p> <p>Power Mixture Instruments H.I. To Compass</p>	<p>DESCENT</p> <p>Mixture - Richen Fuel - Both Carb Heat - As Req. ATIS / AWOS Altimeter - Set Instruments H.I. To Compass</p> <p>PRE-LANDING</p> <p>Landing Light - On Autopilot - Off Seat Belt / Harness Mixture - Best Power Carb Heat - On Fuel - Both Flaps - As Req.</p> <p>LANDING</p> <p>Flaps - 40° <i>Or As Req.</i> Speed * 61 (70)</p> <p>G.U.M.P.F.S.</p> <p>GO AROUND Power - Full Carb Heat - Off Positive Rate Climb Flaps - Retract Slowly</p>	<p>AFTER LANDING</p> <p>Flaps - Up Carb Heat - Off Strobes - Off Landing Light - Off Taxi Light - As Req. Pitot Heat - Off Mixture - As Req. Trim - Takeoff XPDR - STBY</p> <p>SECURING</p> <p>ELT - Verify Silent Avionics - Off Mixture - Full Lean Mags - Off Master - Off Fuel - Left or Right Lights - Off Hobbs / Tach Time Control Lock Chocks Tie Downs Pitot Cover Baggage Door Cabin Doors</p> <p>Close Flight Plan</p> <p>* Adjust Speed As Needed For Conditions</p>
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Vr • Rotation Speed - 52 (60)	Vs0 • Stall with flaps - 43 ⁽¹⁾ (49)	Va • Max Abrupt (2000 lbs) - 99 (114)	Vfe • Full Flaps - 87 (100)
Vx • Best Angle Climb - 59 (68)	Vs • Stall without flaps - 50 ⁽¹⁾ (57)	Va • Max Abrupt (Full Gross) - 106 (122)	X Wind • Max Demo'd - 13 (15)
Vy • Best Rate Climb - 71 (82)	Best Glide (2000 lbs) - 65 (75)	Vno • Max Structural Cruise - 122 (140)	
	Best Glide (Full Gross) - 70 (80)	Vne • Never Exceed - 151 (174)	

	KNOTS (MPH)	FLAPS °	- NOTES -
DEPARTURE			⁽¹⁾ Stall Speeds Are CAS
Rotation *	52 (60)	0	Short Field w/Obstacle: 0° Flaps
Best Angle Climb	59 (68)	0	Short w/o Obstacle or Soft: 10° Flaps
Best Rate Climb	71 (82)	0	
CRUISE (TAS-5,000')			
Economy	95 (109)	0	2300 RPM - 6.5 GPH - 55%
Normal	107 (123)	0	2500 RPM - 7.4 GPH - 68%
Maximum	112 (129)	0	2600 RPM - 8.1 GPH - 75%
ARRIVAL			
Approach	70 (80)	10-20	1700 RPM (Initially)
Short Final *	61 (70)	30-40	Idle-1200 RPM

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Specs Are Approximate Because Of Environment & Plane Model / Year Variables. Specs Are In: LBS, KIAS, Sea Level, Standard Day, Normal Category, Max.Gross Wt., No Wind, "Best Power", Wheel Pants, New Engine. () = MPH.

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POWER LOSS IMMEDIATELY AFTER TAKEOFF / NO RESTART

- MAINTAIN AIRCRAFT CONTROL
- BEST GLIDE - 70 KIAS (80 MPH) (Full Gross Weight)
- FUEL SELECTOR - OFF
- MIXTURE - FULL LEAN / IDLE CUTOFF
- FLAPS - DOWN
- MASTER & MAGS - OFF (Unlatch Doors)

POWER LOSS IN FLIGHT

- BEST GLIDE - 70 KIAS (80 MPH) (Full Gross Weight)
- CARB HEAT - ON (Also Supplies Alternate Air)
- NOTE WIND DIRECTION & VELOCITY
- PICK LANDING SITE
- MIXTURE - FULL RICH
- FUEL SELECTOR - CHECK / SWITCH / BOTH (Note Gauges)
- FUEL PRIMER - LOCKED (Try Re-Priming)
- MAGNETOS - CHECK ALL
- MASTER - ON

IF NO RESTART & TIME PERMITS

- MAINTAIN BEST GLIDE
- SQUAWK 7700
- DECLARE EMERGENCY (TWR, APP, Unicom, 121.5)
- FUEL SELECTOR - OFF
- MIXTURE - FULL LEAN / IDLE CUTOFF
- SEATBELTS / HARNESS
- FLAPS - AS NEEDED (Full Flaps When Field Assured)
- MASTER & MAGS - OFF
- UNLATCH DOORS
- PROTECT BODY

ELECTRICAL FIRE IN FLIGHT

- ALL ELECTRICAL DEVICES + MASTER OFF (Mags On)
- CABIN HEAT & AIR - OFF
- IF FIRE OUT - MASTER ON ONLY IF CRITICAL (Vents - Open)
- THEN ONE ESSENTIAL ELECTRICAL DEVICE AT A TIME
- RESET CIRCUIT BREAKER ONLY IF CRITICAL

ENGINE FIRE IN FLIGHT

- MIXTURE - FULL LEAN / IDLE CUTOFF
- FUEL SELECTOR - OFF
- MASTER SWITCH - OFF
- CABIN HEAT & AIR - OFF (Except Overhead Vents)
- INCREASE AIRSPEED TO EXTINGUISH - LAND ASAP

ENGINE FIRE DURING START

- CONTINUE CRANKING ENGINE
- IF START - RUN A FEW SECONDS - SHUTDOWN - INSPECT
- IF NO START - IDLE MIXTURE CUTOFF & FUEL SELECTOR OFF
- THROTTLE FULL OPEN
- CONTINUE CRANKING ENGINE A FEW SECONDS
- MASTER & MAGS - OFF
- EVACUATE / FIRE EXTINGUISHER

ICING

- PITOT HEAT - ON
- CARB HEAT - ON
- CABIN HEAT & DEFROST - MAXIMUM
- STRONGLY CONSIDER 180° TURN
- ATTAIN HIGHER OR LOWER ALTITUDE
- INCREASE ENGINE SPEED
- FLAPS - NOT RECOMMENDED FOR LANDING
- LAND FASTER AS NEEDED

OTHER

EXCESSIVE RATE OF CHARGE: Over Voltage Warning Light Will Illuminate If Reaches Approx. 16 Volts. To Reactivate, Turn Both Sides Of The Master Switch Off / Then On Again. If Light Comes On Again, Terminate Flight A.S.A.P.

INSUFFICIENT RATE OF CHARGE: Nonessential Electric - Off / Terminate Flight A.S.A.P.

RADIO OUT: Check Circuit Breakers & VOLUME
Recycle Alternator Switch
If IFR & Still Out, Set XPDR To 7600.
(Suggested For VFR If In B, C, D Airspace.)

UNICOM: 122.7 - 122.8 - 122.95 - 123.0 - 123.05
MULTICOM: 122.9 (CTAF), 122.75, 122.85 (Air To Air)
FLIGHT WATCH: 122.0

TOWER SIGNALS	ON GROUND	IN FLIGHT
Steady Green	Cleared For Takeoff	Cleared To Land
Flashing Green	Cleared To Taxi	Return For Landing
Steady Red	Stop	Yield & Continue Circling
Flashing Red	Taxi Clear of Landing Area	Airport Unsafe - Do Not Land
Flashing White	Return To Starting Point	N/A
Alternating Red & Green	Use Extreme Caution	Use Extreme Caution

* Every Plane Has A Different Empty Weight And Useful Load
Cessna 172 L,K,L Lycoming: O-320-E2D, 150 HP

- * Empty Weight: 1420.6K/1407.35L (Weight)
- * Max. Useful Load: 879.4K/892.65L (Fuel @ 6 lbs/gal)
- Max. Baggage Area: 120 LBS (Included In Useful Load)
- Max. T.O. Weight: 2300 LBS

- Fuel Type: 100 LL (Blue) / 100 (Green) / 80/87 (Red)
- Usable Fuel: 38 Gallons (48 L.R Tanks)
- Oil Capacity: 8 Quarts (Minimum 6)
- Electrical: 12-14 VOLT / 60 AMP

- Tire Pressure: Nose - 26 PSI (5.00 x 5) (172 L,K)
- 31 PSI (6.00 x 6) (172 L,K,L)
- Main - 24 PSI (6.00 x 6) (172 L,K)
- 29 PSI (6.00 x 6) (172 L)