START,

Seat Track/Back-Lock

Avionics - Off

Autopilot - Off

Carb Heat - Off

Throttle - Slight

Prime

Brakes

Prop - Clear

Master - On

Beacon - On

Fuel Pump - On

Fuel Pump - Off

Lights - As Req.

Mixture - As Rea.

PRE-TAXI / TAXI

Seat Belts / Harness

Heat / Vent / Defrost

Mags - Start (1)

Oil Pressure

Fuel Pressure

Mixture - Full Rich

INITIAL

Weather & Den. Alt. Weight & Balance Performance Req. Flight Plan - File Papers - A.R.O.W. Flaps - Extend

Master - On Pitot Heat - Test Stall Indicator - Test Lights - Int. / Ext. Fuel Gauges - True Master - Off

EXTERIOR SUMMARY

Fuel Quantity

Fuel Quality

Caps/Drains/Vents Engine / Oil / Belt Prop / Air Intake **Exhaust System** Surfaces & Controls **Pitot Static Ports** Gear / Tires / Brakes Antennas Ties/Chocks/Towbar Baggage Door Final Walk Around

INTERIOR

Flaps – Up Passenger-Load/Brief Hobbs /Tach Time Fuel - Proper Tank Circuit Breakers Alternate Static Pitot / Static - Drain / Close ELT - Armed

Avionics - On ATIS / AWOS Altimeter XPDR - Alt + Sawk ADS-B - On Radio - Test Taxi Light – As Req. Brakes - Test Attitude Indic.-Test Turn Coord. – Test

H.I. To Compass-Test

RUN-UP

Brakes Fuel - Proper Tank Trim - Takeoff Flight Controls Annunciator Lights Instruments Mixture - Best Power Primer - In & Lock 2000 RPM (2) Mags-Test R-L-Both Carb Heat - Test Vacuum Amps / Volts

PRE-TAKEOFF

Fuel Pressure

Oil Temperature

Idle - Check Closed

Oil Pressure

Friction Lock

Flaps - 0°-25° Fuel Pump - On Mixture - Best Power Carb Heat-Off Or As Reg. Pitot Heat - As Req. XPDR - Alt + Sawk Heading Bug Doors / Windows Landing Light - On Strobes - On Time - Note Brakes - Release

ABORT PLAN-READY!

TAKEOFF

Full Throttle 2300 RPM Minimum Oil Pressure Rotate -* 48 (55) Vv - 74 (85)

CLIMB

Flaps - Up

87 (100)

Power Mixture Fuel Pump - Off Instruments Taxi / Land Light – Off Flight Plan - Open

CRUISE

Power Mixture Instruments Fuel - Proper Tank Fuel Pump On While Switching Then Off After 10 Seconds

DESCENT

Mixture - Richen Carb Heat-As Req. Fuel - Proper Tank ATIS / AWOS Altimeter Instruments

PRE-LANDING

Brakes - Pedal Test Landing Light - On Autopilot - Off Seat Belts / Harness Mixture - Best Power Carb Heat-As Req. Fuel Pump - On Fuel - Proper Tank

LANDING Flaps - 40° Or As Reg * **65** (75)

Flaps - As Req.

G. U. M. P. F. S.

GO-AROUND

Power - Full Carb Heat - Off Positive Rate Climb Flaps - Retract Slowly

AFTER LANDING

Flaps – Up Carb Heat - Off Fuel Pump - Off Strobes - Off Landing Light - Off Taxi Light - As Reg.

Pitot Heat - Off Mixture - As Reg. Trim – Takeoff XPDR - Alt + Sawk

SECURING

ELT - Verify Silent

Avionics - Off Mixture – Full Lean Mags - Off Master - Off Lights - Off Hobbs / Tach Time Secure Yoke Chocks Tie Downs Pitot Cover Baggage Door Cabin Door

Close Flight Plan

* Adjust Speed As Needed For Conditions.

Check Your POH For Notes / Caution Plus Manufacturer For Revisions.

Vr • Rotation – 48	(55)	Vs ₀ • Stall With Flaps –	50 (5	57)	Va • Max Abrupt Ctrl (1700 lbs)	94 (108)	X Wind • Max Demo'd – 15 (17)
Vx • Best Angle Climb – 64	(74)	Vs • Stall w/o Flaps -	58 (6	57)	Va • Max Abrupt (Full Gross) -	112 (129)	Vfe • Flaps Extended — 100 (115)
Vy • Best Rate Climb - 74	(85)	Best Glide (1700 lbs) -	59 (6	68)	Vno • Max Structural Cruise —	122 (140)	
		Best Glide (Full Gross) -	- 70 (8	30)	Vne • Never Exceed —	149 (171)	

		, , , , , ,	
	KNOTS (MPH)	FLAPS °	– NOTES –
DEPARTURE Rotation * Best Angle Climb	48 (55) 64 (74)	0	EARLIER MODELS (1) Start On LEFT Mag. Switch To <u>BOTH</u> After Start. (2) Run-Up @ 1800 RPM For Mag Check. Short Field: 25° Flaps
Best Rate Climb	74 (85)	0	Soft Field: 25° Flaps
CRUISE TAS-7,000' Economy Normal Maximum	106 (122) 115 (132) 124 (143)	0 0 0	2430 RPM – 60% 2510 RPM – 65% 2640 RPM – 75%
ARRIVAL Approach Short Final *	74 (85) 65 (75)	10-25 40	1600 RPM (Initially) Idle-1200 RPM

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

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(IF UNABLE TO ABORT TAKEOFF)

POWER LOSS IMMEDIATELY AFTER TAKEOFF / NO RESTART

MAINTAIN AIRCRAFT CONTROL

BEST GLIDE - 70 KIAS (80 MPH)

Full Gross Weight

FUEL SELECTOR / FUEL PUMP - OFF

MIXTURE - FULL LEAN / IDLE CUTOFF

FLAPS - DOWN

MASTER / MAGS - OFF

UNLATCH DOOR PROTECT BODY

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

Adjust For Carb Heat

FUEL SELECTOR - CHECK / SWITCH

Note Gauges

FUEL PUMP - ON

Try Re-Priming

FUEL PRIMER - LOCKED MAGNETOS - CHECK ALL

MASTER - ON

IF NO RESTART & TIME PERMITS

MAINTAIN BEST GLIDE

SQUAWK 7700

DECLARE EMERGENCY

TWR, APP, Unicom, 121.5

FIT - ON

MIXTURE - FULL LEAN / IDLE CUTOFF

FUEL SELECTOR - OFF

SEATBELTS / HARNESS

FLAPS - AS NEEDED

Full Flaps When Field Assured

MASTER / MAGS - OFF

UNLATCH DOOR

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

INCREASE AIRSPEED TO EXTINGUISH - LAND ASAP

RESET CIRCUIT BREAKERS ONLY IF CRITICAL

ENGINE FIRE IN FLIGHT

THROTTLE - CLOSED

MIXTURE - FULL LEAN / IDLE CUTOFF

FUEL SELECTOR - OFF

MASTER - OFF

CABIN HEAT & AIR - OFF

Vents-Open

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 OR AS REQUIRED

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

ALTERNATOR FAILURE: Reduce Electrical Load / Verify C.B. In., Turn ALT Switch Off For 30 Seconds, Then On.

If Ammeter Continues To Indicate Zero Output, Or If Alternator

Will Not Remain Reset, Turn Off ALT Switch, Maintain Minimum Electrical Load And Land A.S.A . Practical. (BATTERY ONLY)

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)

F.S.S.: 122.000-122.675. Most Common-122.2

EMERGENCY: 121.5

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

Every Plane Has A Different Empty Weight And Useful Load. Piper Cherokee 180, PA-28-180 Lycoming O-360-A4A, 180 HP

* Empty Weight: LBS (Specific Plane Weight)

* Max. Useful Load: LBS (Including Fuel @ 6 lbs/gal)

200 LBS (Included In Useful Load)

Max. T.O. Weight: 2400 LBS

Fuel Type: 100 LL (Blue) / 100 (Green) 91/96 Min.

Total Fuel: 50 Gallons

Max. Baggage Area:

Oil Capacity: 8 Quarts (POH Minimum 2. Recommend 6)

Electrical: 12-14 VOLT / 60 AMP

Tire Pressure: Nose - 24 PSI / Main - 24 PSI

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