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 Lightsl - 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 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

Vr • Rotation -

Vx . Rest Angle Climb -

START

Seat Track/Back-Lock Avionics - Off Autopilot - Off Carb Heat - Off Mixture - Full Rich Throttle - Slight Prime **Brakes** Prop - Clear Master - On Beacon - On Fuel Pump - On Mags - Start Oil Pressure Fuel Pump - Off Fuel Pressure Lightsl - As Reg. Mixture - As Rea.

PRE-TAXI / TAXI

Seat Belt / Harness Heat / Vent / Defrost Avionics - On ATIS / AWOS Altimeter XPDR - Alt + SqwkADS-B - On Radio - Test Taxi Light - As Req. Brakes - Test Attitude Indic.-Test Turn Coord. – Test H.I. To Compass-Test

48 (55)

66 (76)

RUN-UP

Brakes Fuel - Proper Tank Trim - Takeoff Flight Controls **Annunciator Lights** Instruments Mixture - Best Power Primer - In & Lock 2000 RPM Mags-Test R-L-Both Carb Heat - Test Vacuum Amps / Volts **Fuel Pressure** Oil Pressure Oil Temperature Idle - Check Closed Friction Lock

PRE-TAKEOFF

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

Abort Plan - Ready!

TAKEOFF

Full Throttle 2275 RPM Minimum Oil Pressure Rotate -* 48 (55) Vy - 75 (86) Flaps - Up

CLIMB

75-87 (86-100) Power Mixture Instruments Taxi/Land Light - Off Flight Plan - Open Fuel Pump – Off After Reaching Desired Altitude

CRUISE

Power Mixture Instruments Fuel - Proper Tank Fuel Pump On While Switching

Va • Max Abrupt Ctrl (1650 lbs) - 100 (115)

DESCENT

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

PRE-LANDING

Brakes - Pedal Test Landing Light - On Seat Belt / Harness Mixture - Best Power Carb Heat - As Req. Fuel Pump - On Fuel - Proper Tank Flaps - As Reg.

LANDING

Flaps - 40° Or As Req * 59 (68)

GUMPES

GO-AROUND

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 Req. Pitot Heat - Off Mixture - As Req. Trim - Takeoff XPDR - Alt + Sqwk

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 Cabin Door

Close Flight Plan

Power - Full

* Adjust Speed As Needed For Conditions

155 (178)

Vne • Never Exceed —

Vy • Best Rate Climb = 75 (86)	Best Glide (1650 lbs) – 60 (69) Best Glide (2150 lbs) – 69 (79)		Va • Max Abrupt (2150 lbs) — Vno • Max Structural Cruise —		Vfe • Flaps Extended = 101 (116) X Wind • Max Demo'd = 17 (20)
KNO	TS (MPH)	FLAPS °		= NO	TES -
DE DA MALLE					

	KNOTS (MPH)	FLAPS °	= NOTES -
DEPARTURE Rotation * Best Angle Climb Best Rate Climb	48 (55) 66 (26) 75 (86)	0 0 0	Hot Start: Master-On, Fuel Pump-On, Mixture-Idle Cutoff Then Rich After Engine Starts. Short Field: 25° Flaps. Rotate * 50 (5%) Then 66 (7%) Until Clear Soft Field: 25° Flaps. Rotate As Early As Possible.
CRUISE TAS -5,000' Economy Normal Maximum	85 (98) 94 (108) 104 (120)	0 0 0	2230 RPM – 6.2 GPH – 55% 2370 RPM – 7.3 GPH – 65% 2520 RPM – 8.4 GPH – 75%
ARRIVAL Approach Short Final *	70 (81) 59 (68)	10-25 40	1500 RPM (Initially)

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Vso • Stall With Flaps -41 (47)

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VERTICAL SCALE = NAUTICAL MILES PER INCH: WAC = 14SFC = 7TAC = 3.5IMPORTANL.. FREQUENTLY CHECK OUR WEBSITE & MANUFACTURER FOR UPDATES ~ COMPLETE CUSTOMIZATION AVAILABLE INCLUDING SIZES & FORMATS — PLEASE DO NOT COPY

(II UNABLE TO ABORT TAKEOFF)

POWER LOSS IMMEDIATELY AFTER TAKEOFF / NO RESTART

MAINTAIN AIRCRAFT CONTROL

BEST GLIDE - 69 KIAS (79 MPH)

Full Gross Weight

FUEL SELECTOR - OFF

MIXTURE - FULL LEAN / IDLE CUTOFF

FLAPS - DOWN

MASTER & MAGS - OFF

UNLATCH DOOR PROTECT BODY

POWER LOSS IN FLIGHT

BEST GLIDE - 69 KIAS (79 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

Note Gauges

FUEL PUMP - ON

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

ELT - 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

3

IF FIRE OUT – MASTER ON ONLY IF CRITICAL Vents – Open THEN ONE ESSENTIAL ELECRICAL DEVICE AT A TIME

RESET CIRCUIT BREAKER 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

INCREASE AIRSPEED TO EXTINGUISH - LAND ASAP

ENGINE FIRE DURING START

CONTINUE CRANKING ENGINE

IF START - RUN A FEW SECONDS - SHUTDOWN - INSPECT

IF NO START-MIXTURE-IDLE 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. Attempt To Reset Overvoltage Relay – Turn ALT Switch Off For One Second, 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 ASAP. (BATTERY ONLY)

Local Frequencies:

UNICOM: 122.7 122.725 122.8 122.975 123.0 123.05

MULTICOM: 122.9 (CTAF) 122.75 (Air To Air)

FSS: 122.2 GROUND: 121.3 123.5 121.7 123.9

EMERGENCY: 121.5

RADIO DITECTION CHECK CIRCUIT BREAKERS & VOLUME RECYCLE ALTERNATOR SWITCH IF IFR & STILL OUT, SET XPDR TO 7600. (Suggested For VFR If In B,C, D Airspace.)

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 Airport Unsafe - Do Not Land N/A	
Flashing Red	Taxi Clear of Landing Area		
Flashing White	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 140, PA-28-140 Lycoming: O-320-E3D, 150 HP

* Empty Weight: LBS (Specific Plane Weight)

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

Max. Baggage Area: 100 LBS (s/n 28-20000 - s/n 28-20939)

Max. Baggage Area: 200 LBS (s/w 28-20940 & On)

Max. T.O. Weight: 1950 LBS (s/n 28-20000 - s/n 28-20939)
Max. T.O. Weight: 2150 LBS (s/n 28-20940 & On)

Fuel Type: 100 LL (*Blue*) / 100 (*Green*) / 80/87 (*Red*) **Usable Fuel:** 49.5 Gallons

Oil Composition 0.0

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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