DESCENT

Mixture - Richen

Carb Heat - As Reg.

Fuel - Proper Tank

PRE-LANDING

Brakes - Pedal Test

Landing Light - On

Seat Belts / Harness

Mixture - Best Power

Carb Heat - As Req.

Fuel - Proper Tank

LANDING

Fuel Pump - On

Flaps - As Req.

Autopilot - Off

AC - Off

INITIAL

Weather & Den. Alt. Weight & Balance

Performance Reg. Flight Plan - File

Papers - A.R.O.W Carb Heat - Off Flaps - Extend Throttle - Slight Master - On Brakes Pitot Heat - Test Prop - Clear

Stall Indicator - Test Lights - Int. / Ext. Fuel Gauges - True Master - Off Pitot/Static - Drain/Close

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

INTERIOR

Final Walk Around

Flaps - Up

Passenger-Load/Brief Hobbs / Tach Time Fuel - Proper Tank

Circuit Breakers

Alternate Static ELT - Armed Vr • Rotation Speed - 59 (68) Vx • Best Angle Climb - 64 (74)

Vy • Best Rate Climb - 76 (87)

DEPARTURE

Rotation *

Best Angle Climb Best Rate Climb CRUISE (TAS-5,000') Economy

Approach Short Final *

ARRIVAL

Normal

Maximum

START Seat Track/Back-Lock

Avionics - Off

Master - On

Beacon - On

Fuel Pump - On

Prime - As Reg.

Fuel Pump - Off

Lights - As Reg.

Mixture - As Reg.

PRE-TAXI / TAXI

Seat Belts / Harness

Heat / Vent / Defrost

XPDR - Alt + Sqwk

KNOTS (MPH)

(68)

(74)

(87)

(86)

(76)

95 (109)

109 (125)

119 (137)

75

VERTICAL SCALE = NAUTICAL MILES PER INCH: WAC = 14

59

Avionics - On

ATIS / AWOS

ADS-B - On

Radio - Test

Brakes - Test

Altimeter

Mags - Start

Oil Pressure

Fuel Pressure

AC - Off

Autopilot - Off

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 Mixture - Full Rich Vacuum Amps / Volts **Fuel Pressure**

Oil Pressure

Oil Temperature Idle - Check Closed Throttle Friction

PRE-TAKEOFF Flaps - 0°-25° Mixture - Best Power

Carb Heat-Off Or As Reg.

Fuel Pump - On XPDR - Alt + Sqwk Heading Bug Pitot Heat - As Reg. AC - Off Doors / Windows

Taxi Light - As Reg. Landing Light - On Strobes - On Attitude Indic.-Test Time - Note Turn Coord. - Test Brakes - Release H.I. To Compass-Test Abort Plan - Ready!

Vso • Stall with Flaps - 49 (56) Vs • Stall w/o Flaps - 55 (63)

Best Glide (Full Gross) - 76 (87)

Best Glide (1634 lbs) - 61 (70)

Va • Max Abrupt Ctrl (1634 lbs) - 89 (102) Va • Max Abrupt (Full Gross) - 113 (130) Vno • Max Structural Cruise - 125 (144)

FLAPS °

0

0

0

0

0

10-25

TAKEOFF

Full Throttle 2325 RPM (Min) Oil Pressure

Rotate -* 59 (68) ATIS / AWOS Vv - 76 (87) Altimeter Flaps - Up Instruments

CLIMB 76-87 (87-100)

Power Mixture Fuel Pump - Off Instruments Taxi / Land Light - Off

CRUISE

Flight Plan - Open

Power Mixture Instruments

Fuel - Proper Tank (Fuel Pump On If Switch)

Vne • Never Exceed -

SEC = 7

Flaps - 40° Or As Reg

* 66 (76) G. U. M. P. F. S.

GO-AROUND Power - Full Carb Heat - Off

NOTES <u>Short Field</u>: 25°Flaps. Rotate * 41-49 KIAS (47-56) Then 45-54 KIAS (52-62).

Soft Field: 25° Flaps. After Breaking Ground Accelerate To *52 (60), When Flaps Up, 76 KIAS (87)

154 (177)

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 Rea. Trim - Takeoff XPDR - Alt + Sqwk

SECURING

ELT - Verify Silent

Avionics - Off

AC - Off Mixture - Full Lean Mags - Off Master - Off

Lights - Off Hobbs / Tach Time Secure Yoke Chocks Tie Downs Pitot Cover

Close Flight Plan

Baggage Door

Cabin Door

* Adjust Speed As Needed For Conditions.

Check Your POH for Notes / Caution

For Notes / Caution: Plus Manufacturer For Revisions.

Vfe • Flaps Extended - 102 (117) X Wind • Max Demo'd - 17 (20)

2280 RPM - 7.8 GPH - 55% 2430 RPM - 9.0 GPH - 65% 2580 RPM-10.5 GPH - 75%

> Idle-1200 RPM 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.

1700 RPM (Initially)

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(IF UNABLE TO ABORT TAKEOFF)

POWER LOSS IMMEDIATELY AFTER TAKEOFF / NO RESTART

MAINTAIN AIRCRAFT CONTROL

BEST GLIDE - 76 KIAS (87 MPH) **FUEL SELECTOR - OFF**

(Full Gross)

MIXTURE - FULL LEAN / IDLE CUTOFF

FUEL PUMP - OFF

FLAPS - DOWN MASTER & MAGS - OFF **UNLATCH DOOR** PROTECT BODY

POWER LOSS IN FLIGHT

BEST GLIDE - 76 KIAS (87 MPH)

(Full Gross)

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

(TWR, APP, Unicom, 121.5)

DECLARE EMERGENCY

ELT - ON

MIXTURE - FULL LEAN / IDLE CUTOFF

FUEL SELECTOR - OFF SEATBELTS / HARNESS

FLAPS - AS NEEDED (Full Flaps When Field Assured)

MASTER & MAGS - OFF

AIRSPEED APPROX. 63 KIAS (72 MPH)

UNLATCH DOOR

PROTECT BODY

ELECTRICAL FIRE IN FLIGHT

ALL ELECTRICAL DEVICES + MASTER - OFF (Mags-On)

VENTS, CABIN HEAT & AIR - OFF

IF FIRE OUT - MASTER ON ONLY IF CRITICAL (Vents-Open)

THEN ONE ESSENTIAL ELECTRICAL DEVICE AT A TIME

RESET CIRCUIT BREAKERS ONLY IF CRITICAL

ENGINE FIRE IN FLIGHT

THROTTLE - CLOSED

MIXTURE - FULL LEAN / IDLE CUTOFF

FUEL SELECTOR - OFF

MASTER - OFF

(Vents - Open) **CABIN HEAT & AIR - OFF** INCREASE AIRSPEED TO EXTINGUISH - LAND ASAP

ENGINE FIRE DURING START

CONTINUE CRANKING ENGINE

EVACUATE / FIRE EXTINGUISHER

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

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 - 70-80 KIAS (81-92 MPH)

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 A.S.A.P. (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
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. Piper Archer II PA-28-181 (Lycoming: 0-360-A4M or A4A, 180 HP)

* Empty Weight: LBS (Specific Plane Weight)

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

Max. Baggage Area: 200 LBS (Included In Useful Load) Max. T.O. Weight: 2550 LBS

Fuel Type: 100 LL (Blue) / 100 (Green) **Usable Fuel:** 48 Gallons

Oil Capacity: 8 Quarts (POH Minimum 2. Recommend 6) Electrical: 12-14 VOLT / 60 AMP

Tire Pressure: Nose - 18 PSI / Main - 24 PSI