CheckMate_®

INITIAL

START

Prop - High RPM

Throttle - Slight

RUN-UP

TAKEOFF

DESCENT

AFTER LANDING

Weather & Den. Alt. Weight & Balance Performance Reg.

Flight Plan - File

Flaps - Extend

Master - On

Papers - A.R.O.W.

Gear Lever - Down

Gear Lights - Green

Stall Indicator - Test

Fuel Gauges - True

EXTERIOR SUMMARY

Caps/Drains/Vents

Engine / Oil / Belt

Prop / Air Intake

Exhaust System

Surfaces & Controls

Pitot & Static Ports

Gear / Tires / Brakes

Ties/Chocks/Towbar

Final Walk Around

INTERIOR

Passenger-Load/Brief

Hobbs / Tach Time

Fuel - Proper Tank

XWind • Max Demo'd - 17 (20)

Vr • Rotation Speed - 56 (65)

Vx • Best Angle Climb - 83 (96) Vy • Best Rate Climb -

Circuit Breakers

Alternate Static

ELT - Armed

DEPARTURE

Best Angle Climb

CRUISE (TAS-5,000')

Best Rate Climb

Rotation *

Economy

Maximum ARRIVAL Approach

Short Final

Normal

Baggage Door

Antennas

Flaps - Up

Pitot Heat - Test

Lights - Int. / Ext.

Master - Off

Fuel Quantity

Fuel Quality

Seat Track/Back-Lock Avionics - Off Autopilot - Off AC - Off

Prop - Clear

Master - On

Beacon - On

Fuel Pump - On

Mixture - Lean

Mags - Start

Oil Pressure

Fuel Pressure

Mixture - Rich/Prime

Mixture - Full Rich

Fuel Pump - Off

Lights -As Reg.

Mixture - As Req.

PRE-TAXI / TAXI

Seat Belts / Harness

Heat / Vent / Defrost

XPDR - Alt + Sawk

Taxi Light - As Req.

Attitude Indic.-Test

Turn Coord. - Test

H.I. To Compass-Test

KNOTS (MPH)

87 (100)

120 (138)

131 (151)

141 (162)

(90)

(78)

VERTICAL SCALE = NAUTICAL MILES PER INCH: WAC = 14 SEC = 7

78

68

56 (65)

83 (96)

Avionics - On

ATIS / AWOS

ADS-B - On

Radio - Test

Brakes - Test

87 (100)

Altimeter

Brakes

Brakes Fuel - Proper Tank Trim - Takeoff

Fliaht Controls

Annunciator Lights

Alter. Air-Test/Close

Mixture - Best-Power

Mags-Test (R-L-Both)

Instruments

2000 RPM

Vacuum

Prop - Cycle

Amps / Volts

Fuel Pressure

Oil Temperature

Idle - Check Closed

PRE-TAKEOFF

Prop - High RPM

Fuel Pump - On

Mixture - Best Power

Gear Override - As Req

Pitot Heat - As Reg.

XPDR - Alt + Sqwk

Doors / Windows

Landing Light - On

Brakes - Release

Abort Plan - Ready!

Best Glide (Full Gross) - 91 (105) Vne • Never Exceed -

FLAPS °

0

0

0

0

0

10-25

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Heading Bug

Strobes - On

Time - Note

AC - Off

Flaps - 0° - 25°

Oil Pressure

Friction Lock

Full Throttle

Throttle - MP As Req.

Flaps - Up Mixture - Richen

Fuel Pump - Off Fuel - Proper Tank ATIS / AWOS

Strobes - Off

Land Light - As Reg. Mixture - As Req.

Pitot Heat - Off

Trim - Takeoff

Mixture - As Reg.

XPDR - Alt + Sqwk

SECURING

ELT - Verify Silent

Mixture - Full Lean

Hobbs / Tach Time

Avionics - Off

AC - Off

Mags - Off

Master - Off

Lights - Off

Secure Yoke

Tie Downs

Pitot Cover

Cabin Door

Baggage Door

Chocks

Oil Pressure Vy - 87 (100) Gear - Up

Flaps - Up

2700 RPM (Max)

Manifold Pressure

Rotate * 56 (65) Altimeter Instruments

PRE-LANDING

Brakes - Pedal Test

Landing Light - On

CLIMB

96 (110)

Autopilot - Off AC - Off Seat Belts / Harness

Throttle - 25" MP Mixture – Best Power

Prop - 2500 RPM Fuel Pump - On Fuel - Proper Tank

Mixture - As Req.

Fuel Pump - Off Instruments Taxi/Land Light-Off

CRUISE

Fuel - Proper Tank

Throttle

Mixture

Instruments

Prop

Flight Plan - Open

Gear Override - As Req Gear Lights - Green Flaps - As Req.

LANDING

Gear Lights - Green

Flaps - 40° Or As Rea Prop - High RPM

* 68 *(78)* G. U. M. P. F. S.

GO-AROUND

Power - Full

Flaps - Approach Gear Override - As Reg Positive Rate Climb Gear - Up

Flaps - Up

- NOTES -Vx & Vy Are Gear Up Speeds.

Short Field: 25° Flaps. Rotate *54 (62), Then 74 (85)

Avoid Cruise Speeds Between 2150 RPM - 2350 RPM W/ IO-360-C1C

21.7" MP - 2100 RPM - 8.2 GPH - 55%

21.7" MP - 2400 RPM - 9.2 GPH -65%

17" MP (Initially)

Prop - High RPM

Full Throttle - 2400 RPM - 10.2 GPH - 75%

Soft Field: 25° Flaps. Rotate *52 (60)

TAC = 3.5

Vs₀ • Stall With Flaps - 56 (64) Va • Max Abrupt (2100 lbs) - 101 (116) Vfe • Full Flaps -

Close Flight Plan

* Adjust Speed As Needed For Conditions.

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

Vs • Stall w/o Flaps - 62 (71) Va • Max Abrupt (Full Gross) - 114 (131) Vlo • Max Gear Operate - 130 (150) Best Glide (2100 lbs) - 81 (93) Vno • Max Structural Cruise - 148 (170) Vle • Max Gear Extended - 130 (150)

186 (214) Vir • Max Gear Retract -

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NOS = 12 CHECK YOUR MANUFACTURER & OUR WEBSITE FOR UPDATES ~ COMPLETE CUSTOMIZATION AVAILABLE ~ CHECKMATE IS AVAILABLE IN VARIOUS SIZES & FORMATS ~ PLEASE DO NOT COPY

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 Economy", New Engine. () = MPH.

(IF UNABLE TO ABORT TAKEOFF) POWER LOSS IMMEDIATELY AFTER TAKEOFF / NO RESTART

MAINTAIN AIRCRAFT CONTROL

(Full Gross Weight) BEST GLIDE – 91 KIAS (105 MPH)

FUEL SELECTOR - OFF

MIXTURE - FULL LEAN / IDLE CUTOFF

FLAPS - DOWN

GEAR - AS REQUIRED UNLATCH DOOR MASTER & MAGS - OFF PROTECT BODY

POWER LOSS IN FLIGHT

BEST GLIDE - 91 KIAS (105 MPH) (Full Gross Weight) If Needed Manual Override Gear Engaged Above 100 KIAS (115)

NOTE WIND DIRECTION & VELOCITY

PICK LANDING SITE

MIXTURE - FULL RICH

FUEL SELECTOR - CHECK / SWITCH

FUEL PUMP - ON

ALTERNATE AIR - ON

MAGNETOS -- CHECK ALL

MASTER - ON

IF NO RESTART & TIME PERMITS

MAINTAIN BEST GLIDE PROP - LOW RPM

(Full Aft)

(Note Gauges)

SOUAWK 7700

(TWR, APP, Unicom, 121.5) **DECLARE EMERGENCY**

ELT - ON

MIXTURE - FULL LEAN / IDLE CUTOFF

FUEL SELECTOR - OFF

SEATBELTS / HARNESS GEAR-DOWN (Up If Very Rough/Soft Terrain. Engage Gear Override>100 Knots)

(Full Flaps When Field Assured) FLAPS - AS NEEDED

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 RESET CIRCUIT BREAKER(S) ONLY IF CRITICAL

ENGINE FIRE IN FLIGHT

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

IF START - RUN A FEW SECONDS - SHUTDOWN - INSPECT IF NO START - IDLE MIXTURE CUTOFF & FUEL SELECTOR OFF

THROTTLE - FULL OPEN / CRANK ENGINE FEW SECONDS

MASTER & MAGS - OFF **EVACUATE / FIRE EXTINGUISHER**

ICING

PITOT HEAT - ON

DEICING EQUIPMENT - ON CABIN HEAT & DEFROST - MAXIMUM

STRONGLY CONSIDER 180° TURN ATTAIN HIGHER OR LOWER ALTITUDE

INCREASE ENGINE & PROP SPEED

FLAPS - NOT RECOMMENDED FOR LANDING LAND FASTER AS NEEDED

MANUAL GEAR EXTENSION

LANDING GEAR LEVER - DOWN POSITION EMERGENCY GEAR LEVER - EMERGENCY DOWN

REDUCE AIRSPEED BELOW 87 KIAS (100 MPH)

YAW AIRPLANE IF NECESSARY TO HELP LOWER GEAR

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.)

122.7 – 122.8 – 122.95 – 123.0 – 123.05 122.9 (CTAF) – 122.75 – 122.85 (Air To Air) 122.000-122.675. Most Common-122.2 UNICOM: MULTICOM:

EMERGENCY: 121.5 IN FLIGHT Cleared To Land TOWER SIGNALS ON GROUND Steady Green

Cleared For Takeoff Cleared To Taxi Stop Flashing Green Steady Red Return For Landing Yield & Continue Circling Flashing Red Flashing White Taxi Clear of Landing Area Return To Starting Point Airport Unsafe - Do Not Land N/A Use Extreme Caution Alternating Red & Green Use Extreme Caution Every Plane Has A Different Empty Weight And Useful Load.

Piper Arrow II, PA-28R-200 (Lycoming: IO-360-C1C, 200 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: 2650 LBS 100 LL (Blue) / 100/130 (Green) Fuel Type:

Usable Fuel: 48 Gallons Oil Capacity: 8 Quarts (POH-Minimum 2. Suggest 6)

12-14 VOLT / 60 AMP

Tire Pressure: Nose - 30 PSI / Main - 27 PSI

Electrical:

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