ORLANDI

PA-34-200T

INITIAL

Weather & Den. Alt. Weight & Balance Performance Req. Flight Plan - File Papers - A.R.O.W Mags - Off Mixtures - Full Lean Crossfeed - Drain Pitot/Static - Drain Gear Lever - Down Master - On Gear Lights - 3 Green Flaps-Ext/Ck/Retract Pitot Heat - Test Stall Vanes - Test Lights - Int. / Ext. Fuel Gauges - True Master - Off

EXTERIOR SUMMARY

Fuel Quantity Fuel Quality Caps / Drains / Vents Crossfeed Drain-Closed Engines / Oil / Belt Props / Air Intakes **Exhaust Systems** Cowl Flaps Surfaces & Controls **Pitot & Static Ports Deice Equipment** Gear / Tires / Brakes Antennas **Baggage Doors** Ties/Chocks/Towbar

Final Walk Around INTERIOR

Passenger Brief **Hobbs Tach Time** Circuit Breakers Oxygen ELT - Armed

START

Seat Track/Back-Lock Avionics - Off Autopilot/AC - Off Prop Sync - Off Alternate Air - Off Cowl Flaps - Open Fuel Selector - On Brakes - Set

#1 Engine Start

Mixture-Full Rich Prop - High RPM (1)Throttle - Half Prop - Clear Alternator - On Master - On Beacon - On Fuel Pump - Off Mags - On Starter - Engage Primer - As Req. Oil Pressure

#2 Repeat Engine Start

Lights - As Req. Mixture - As Req.

PRE-TAXI / TAXI

Seat Belts / Harness Heat/Vent/Defrost Deice - Electric Test Avionics - On / Set ATIS / AWOS Altimeter - Set XPDR - Alt + Sawk ADS-B - On Radio - Test Taxi Light - As Req. Brakes-Release/Test XFeed-Test/FUEL-ON Attitude Indic.-Test Turn Coord. - Test HSI/Compass - Test

RUN-UP

Brakes - Set Elec. Trim/Autopilot Trim-Takeoff Flight Controls Instruments Manifold Lines-Drain Mixture - Full Rich 1000 RPM Feather - Test

1900 RPM Props-Cycle/Gov. Alt. Air - Test / Off Mags (R&L) - Test Gyro Pressure Amps / Volts **Alternators** Oil Pressure Oil Temperature **Annunciator Lights** Idle - Check Closed Friction Lock

PRE-TAKEOFF

Flaps - 0°-25° Props - High RPM Mixture - Best Power Fuel Pumps - Off Fuel Selectors - On AC - Off XPDR - Alt + Sqwk Doors / Windows Pitot Heat / Deice Landing Light - On Strobes-On Time - Note Brakes - Release

Abort Plan - Ready!

TAKEOFF

2575 RPM (Max) 39" MP (40"Max) Oil Pressure Rotate * 66 (76) Climb * 89 (102) Gear - Up Flaps - Up

CLIMB

102 (117) Throttles - 31.5" MP Props - 2450 RPM Mixture - As Req. Fuel Pumps - As Req. Prop Sync - On Yaw Damper-On Cowl Flaps - As Req Instruments Taxi/Land Light-Off Flight Plan - Open

CRUISE

Throttles Props Mixture Fuel Pumps - Off Cowl Flaps Instruments **HSI To Compass** Oxygen Fuel - Proper Tanks

DESCENT

Power - As Reg. Mixture - Richen Fuel Selectors - On Cowl Flaps - Close ATIS / AWOS Altimeter - Set Defroster Instruments **HSI To Compass**

PRE-LANDING

Landing Light - On Autopilot - Off AC - Off Yaw Damper - Off Prop Sync - Off Gas....On / Pumps- Off Undercarriage....Down Mixture.....Full Rich Props......2250 RPM Flaps.....As Req. Seatbelts...& Harness

LANDING

Gear - Down Flaps - 40° Or As Reg. Props - High RPM Speed * 82 (94)

GO AROUND

Power - Full Positive Rate Climb Flaps - Approach Gear - Up Flaps - Retract Cowl Flaps - Open

AFTER LANDING

Flaps - Up Cowl Flaps - Open Strobes - Off Landing Light - Off Taxi Light - As Req. Deice Equip. - Off Pitot Heat - Off Mixture - As Req. Trim - Takeoff XPDR - Alt + Sawk

SECURING ELT - Verify Silent

Heater - 2 Min / Off Avionics - Off AC - Off Mixture - Full Lean Mags - Off Master/Altntrs - Off Lights - Off Cowl Flaps - Closed Hobbs / Tach Time Secure Yoke Chocks / Tie Downs Pitot Cover **Baggage Doors** Cabin Doors

Close Flight Plan

Adjust Speed As Needed For Conditions

			Control of the Contro			the same of the sa					
Vr • Rotation Speed -	66	(76)	Vs ₀ • Stall with flaps -	61	(70)	Va • Max Abrupt (3500 lbs) -	119	(137)	Vle / Vlo	Gear Speeds -	129 (148)
Vx • Best Angle Climb -	76	(87)	Vs • Stall w/o flaps —	63	(72)	Va • Max Abrupt (Full Gross) -	-136	(156)	Vir • Max	Gear Retract-	107 (123)
Vxse • Best Angle 1 Eng.—	76	(87)	Vmca • Min. Ctrl. 1 Eng	66	(76)	Vno • Max Structural Cruise -	- 163	(187)	Vfe • 10°	Flaps –	138 (159)
Vy • Best Rate Climb -	89	(102)	Vsse • 1 Eng. Intentional—	76	(87)	Vne • Never Exceed —	195	(224)	Vfe • 25°	Flaps -	121 (139)
Vyse • Best Rate 1Eng.—	89 ((102)				X Wind • Max Demo'd –	17	(20)	Vfe • Full	Flaps –	107 (123)

Vyse best hate rung.	00 (102)		7 VIII - IVIAN DEITIO U - 17 (20) VIE - I UII TIAPS - 107 (125)
	KNOTS (MPH)	FLAPS °	– NOTES –
DEPARTURE Rotation * Best Angle Climb Best Rate Climb	66 (76) 76 (87) 89 (102)	0 0 0	(1) W/Optional Primer System Use Full Throttle To Prime, Close Throttle, Engage Starter Short Field w/Obstacle: 25° – 69 KIAS (79) Thru 50' Short Field w/o Obstacle: 0° Avoid Continuous Operation Between 2000 & 2200 RPM Above 32"MP
CRUISE (TAS-10,000') Economy Normal Maximum	157 (181) 170 (196) 180 (207)	0 0 0	25.0" Hg – 2200 RPM – 18.0 GPH – 55% 28.0" Hg – 2300 RPM – 20.5 GPH – 65% 30.4" Hg – 2400 RPM – 23.6 GPH – 75%
ARRIVAL Approach Short Final *	98 (113) 82 (94)	10 - 25 40	17" MP – (Initially) Props – High RPM

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Model / Year Variables. Specs Are In: LBS, KIAS, Sea evel, Standard Day, Normal Category, Max.Gross Wt., No Wind, "Best Power", New Engine. () = MPH.

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(IF UNABLE TO ABORT TAKEOFF)

POWER LOSS DURING TAKEOFF

THROTTLES - CLOSE BOTH IMMEDIATELY

BRAKES - AS REQUIRED / STOP STRAIGHT AHEAD

* IF INSUFFICIENT RUNWAY REMAINS FOR STOPPING

- * FUEL SELECTORS OFF
- * MASTER & MAGS OFF

ONE ENGINE IMMEDIATELY AFTER TAKEOFF >85 KIAS (Also One Engine Go-Around-Avoid If Possible)

MAINTAIN SAFE AIRSPEED

(Quality Landing Area Ahead?)

GEAR / FLAPS - UP

DIRECTIONAL CONTROL - MAINTAIN

IDENTIFY

VERIFY - CLOSE THROTTLE (Inop. Engine)

(Inop. Engine) PROP - FEATHER

(Above 800 RPM)

ACCELERATE TO 89 KIAS (102 MPH)

(5° Bank & 1/2 Ball) to Good Engine

ONE ENGINE IN FLIGHT

CONTROL AIRPLANE - MAINTAIN SAFE AIRSPEED > 76 KIAS (87 MPH) **INOPERATIVE ENGINE - IDENTIFY**

OPERATIVE ENGINE – ADJUST

THROTTLE - AS NEEDED TO MAINTAIN CONTROL

TROUBLE-SHOOT (Fuel On/Crossfeed, Fuel Pump-Hi, Mixture, Prop,

Throttle, Master / Alt., Mags, Alternate Air) IF NO RESTART - SECURE DEAD ENGINE

(Above 800 RPM) (Retard Throttle, Feather Prop, Mixture-Idle Cutoff,

Fuel Pump Off, Fuel Off, Mag/Alt Off, Close Cowl Flap)

COWL FLAP (OPERATIVE ENGINE) - AS REQUIRED

FUEL PUMP (OPERATIVE ENGINE) - AS REQUIRED (Consider Xfeed)

ONE ENGINE LANDING

SECURE INOP. ENGINE - MAINTAIN SAFE AIRSPEED

LOWER GEAR - WHEN FIELD ASSURED

FLAPS - 25°

FINAL APPROACH - 92 KIAS (106 MPH)

(Minimum)

FULL FLAPS - WHEN COMMITTED TO LAND

BOTH ENGINES OUT / LANDING

MAINTAIN SAFE AIRSPEED (Best Glide Not Given By Manufacturer) PROPS - FEATHER

MIXTURE - FULL LEAN / IDLE CUTOFF

FUEL SELECTORS - OFF

SQUAWK 7700

DECLARE EMERGENCY

(TWR, APP, Unicom, 121.5)

SEATBELTS / HARNESS

(Full Flaps When Field Assured) FLAPS - AS NEEDED

GEAR - DOWN (Up If Very Rough or Soft Terrain)

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 ELECRICAL DEVICE AT A TIME

RESET CIRCUIT BREAKER ONLY IF CRITICAL

ENGINE FIRE IN FLIGHT

CALAMOR

FUEL SELECTOR - OFF TO AFFECTED ENGINE

CLOSE THROTTLE / FEATHER PROP

MIXTURE - FULL LEAN / IDLE CUTOFF

HEATER / DEFROSTER - OFF

(Gear Down) INCREASE AIRSPEED AS NEEDED TO EXTINGUISH - 129 (148)

ENGINE FIRE DURING START

MIXTURE - FULL LEAN / IDLE CUTOFF

CONTINUE CRANKING ENGINE / THROTTLE - FULL OPEN

FUEL SELECTOR - OFF / MASTER - OFF

SHUTDOWN OTHER ENGINE

EVACUATE / FIRE EXTINGUISHER

ICING

PITOT HEAT/ DEICING EQUIPMENT - ON

ALTERNATE INDUCTION AIR / STATIC SOURCE - AS NEEDED

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

REDUCE AIRSPEED BELOW 85 KIAS (98MPH)

MOVE EMEREGENCY CONTROL CLIP DOWNWARD CLEAR OF KNOB

LOWER LANDING GEAR LEVER

PULL EMERGENCY GEAR EXTENSION KNOB

IF ELECTRICAL SYSTEM OK - VERIFY GEAR LIGHTS

OTHER

ELECTRICAL FAILURES: Alt.Light Illuminated. Observe Ammeters To Determine Inop. Alt. If Both Ammeters Show Zero Output, Reduce Load To A Minimum.

Turn Off Both Switches; Then Turn On Momentarily One @ a Time While Observing Ammeters. Determine Which Shows Least (Not Zero) and Turn On. Reestablish Loads Up To 60A.

If One Ammeter Shows Zero Output, Cycle Off & Then On. If Power Not Restored, Check CB's & Reset Once If Required. If Alternator Remains Inop. Reduce Loads & Continue Flight,

RADIO OUT: Check C.B.s & VOLUME / Recycle Alt. Switch

If IFR & Still Out, Set XPDR To 7600. (Suggested For VFR If In B,C,D Airspace.)

TOWER SIGNALS	ON GROUND	IN FLIGHT Cleared To Land Return For Landing Yield & Continue Circling Airport Unsafe - Do Not Land		
Steady Green	Cleared For Takeoff			
Flashing Green	Cleared To Taxi			
Steady Red	Stop			
Flashing Red	Taxi Clear of Landing Area			
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 Seneca II, PA-34-200T, (Continentals: TSIO-360E or EB / LTSIO-360E or EB)

3211.6 BS (Specific Plane Weight) * Empty Weight: Max. Useful Load: 1358.4 BS (Including Fuel @ 6 lbs/gal)

Max. Bag Area: 200 LBS (Included in Useful Load) 4570 LBS

Max. T.O. Weight Max. Ldg. Weight 4342 LBS **Zero Fuel Weight** 4000 LBS

Fuel Type: 100 LL (Blue) / 100 (Green)

Usable Fuel:

93 Gallons (123 w/ Optional Tanks) Oil Capacity: 8 Quarts Per Engine (Minimum 6)

Electrical: 12-14 VOLT / 65 AMP

Nose - 31 psi / Mains - 55 psi Tire Pressure:

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