

## **PA-34-200 NORMAL PROCEDURES**

BEFOR	E START			
Preflight Inspection	COMPLETE			
Passenger Briefing	COMPLETE			
Fuel Selectors	ON			
Cowl Flaps	OPEN			
Alternate Air	OFF			
Circuit Breakers	IN			
Avionics Master Switch	OFF			
STARTING ENGINES				
Mixtures	IDLE CUTOFF			
Propellers	FULL FORWARD			
Throttles	1/2 INCH			
Brakes	SET			
Master Switch & Beacon Lig	ght (Fin Only) ON			
Magnetos	ON			
Fuel Pump	ON			
Start Switches (one at a tim	e) ENGAGE			
	on until a fuel flow is indicated			
	ized then move to idle cut-off.			
Mixture ADV	ANCE AS ENGINE STARTS			
Throttles	800 - 1000 RPM			
Fuel Pumps	OFF			
Alternators	ON			
AFTER START				
Gyro/Oil Pressure	SET & CHECK			
Mixtures	LEAN			
NAV / Taxi Lights	AS REQUIRED			
Master, Avionics and Radio				
ATIS	LISTEN AND RECORD			
	TAKEOFF			
Flight Controls	FREE & CORRECT			
Flight/Engine Instruments	SET & CHECK			
Mixtures	FULL RICH			
Throttles	1500 RPM			
•	YCLE 500 RPM MAX DROP			
Throttles	2000			
Propeller Controls	GOVERNOR CHECK			
· · · ·	AX DROP 175 MAX DIFF 50			
Gyro Suction	4.8 MIN - 5.2 MAX			
Throttles	800 – 1000 RPM			
Fuel Selector Pumps	ON			
Flight Instruments	SET			

C I NOOLDONLO			
Elevator & Rudder Trim	SET		
Flaps	AS REQUIRED		
Seats & Seat Belts	SECURE		
Doors & Windows	LOCKED & LATCHED		
Takeoff/Emergency Briefing	COMPLETE		
BEFORE LA	NDING		
<b>G</b> AS Fuel Selectors	ON		
<b>UNDERCARRIAGE</b> Landing G	` ,		
MIXTURE	FULL		
<b>P</b> ROPELLERS	FULL FORWARD		
Cowl Flaps	AS REQUIRED		
( )	OFF FAN ON 2 MINUTES		
AFTER LAN			
Flaps	UP		
Cowl Flaps	OPEN		
Fuel Pumps	OFF		
SHUTDO			
Avionics Master Switch	OFF		
Mixtures	IDLE CUT-OFF		
Lights	OFF		
Master Switch	OFF		
Alternators	OFF		
Magnetos	OFF		
V-SPEE			
VR	80-85 MPH (70-74 KIAS)		
Vx	90 MPH (78 KIAS)		
V <sub>Y</sub> (2000 lbs)	105 MPH (91 KIAS)		
V <sub>A</sub> (3000 lbs)	123 MPH (115 KIAS) 146 MPH (127 KIAS)		
V <sub>A</sub> (Full Gross)	76 MPH (66 KIAS)		
V <sub>S</sub>	69 MPH (60 KIAS)		
V <sub>FE10</sub> (Flaps 10)	160 MPH (139 KIAS)		
V <sub>FE25</sub> (Flaps 25)	140 MPH (122 KIAS)		
V FE40 (Flaps 40)	125 MPH (109 KIAS)		
V <sub>LO</sub>	125 MPH (109 KIAS)		
VLE	150 MPH (130 KIAS)		
V <sub>NO</sub>	190 MPH (165 KIAS)		
V <sub>NE</sub>	217 MPH (189 KIAS)		
V <sub>XSE</sub>	90 MPH (78 KIAS)		
Vyse	105 MPH (91 KIAS)		
VMC	80 MPH (70 KIAS)		
Max Demonstrated X-Wind	15 MPH (13 KNOTS)		

Before using this checklist, the pilot shall become familiar with the POH/AFM (Pilot Operating Handbook/Aircraft Flight Manual) and thoroughly understand the required procedures for aircraft operation.

## **PA-34-200 EMERGENCY PROCEDURES**

ENGINE FAILURE ON TAKEOFF		ENGINE FIRE ON TAKEOFF	
Airspeed (blue arc) 1	05 MPH (91 KIAS)	Fuel Selector Valve	OFF
Gear	UP	Throttle	CLOSE
Flaps	UP	Propellers	FEATHER
Inoperative Engine (dead foot/dead engine) IDENTIFY		Mixture IDLE CUTOFF	
Inoperative Engine (reduce throttle)	VERIFY	Heater / Defrost Controls	OFF
Inoperative Engine	FEATHER	Land	IMMEDIATELY
ENGINE FAILURE IN FLIGHT		EMERGENCY DESCENT	
Airspeed (blue arc) MIN	90 MPH (78 KIAS)	Throttles	CLOSED
Mixtures	FULL RICH	Props	FORWARD
Propellers	FULL FORWARD	Mixtures	ENRICH
Throttles	FULL FORWARD	Gear	EXTEND
Gear	UP	Airspeed 150	MPH (130 KIAS)
Flaps	UP	MANUAL GEAR DESCE	NT
Fuel Pumps	ON	Circuit Breaker	CHECK
Inoperative Engine (dead foot/dead er	ngine) <b>IDENTIFY</b>	Master Switch	ON
Inoperative Engine (reduce throttle)	VERIFY	Alternators	CHECK
Inoperative Engine	FIX or FEATHER	Navigator Lights	<b>OFF</b> (DAYTIME)
FIX INOPERATIVE ENGINE		Airspeed NOT TO EXCEED 100 MPH (87 KIAS)	
Fuel Selector	CROSSFEED	Landing Gear Selector Switch	DOWN
Alternate Air	ON	Emergency Extension Knob	PULL OUT
Fuel Pump	ON	Gear Lights	3 GREEN
FEATHER INOPERATIVE ENGINE	·	Landing Gear Selector Switch	DOWN
Propeller (Inoperative Engine)	FEATHER	ELECTRICAL FAILURE ("ALT	<u> </u>
Mixture (Inoperative Engine)	IDLE CUTOFF	Electrical Load	REDUCE
Roll 5° BANK TOWARD OP			DBSERVE LOAD
Fuel Pump (Inoperative Engine)	OFF	BOTH AMMETERS READ 2	ZERO
Magnetos (Inoperative Engine)	OFF	Reduce Electrical Load to Minimum	
Cowl Flap (Inoperative Engine)	CLOSED	Alternator Switches	BOTH OFF
Cowl Flap (Operative Engine)	OPEN		N (one at a time)
Alternator (Inoperative Engine)	OFF	If an ammeter shows electrical load, do	
Electrical Load	REDUCE	amperes. If both show equal output res	•
Fuel Selector (Inoperative Engine)	OFF	ONE AMMETER READS Z	
Fuel Pump (Inoperative Engine)	OFF	Alternator Switch	OFF THEN ON
Engine Instruments	MONITOR	IF OUTPUT IS NOT RESTO	RESET ONCE
UNFEATHERING PROCE		ALT Field Circuit Breaker (5 AMP)  Continue flight and take corrective action b	
Fuel Selector (Inoperative Engine)  Fuel Pump (Inoperative Engine)	ON OFF	Continue night and take corrective action b	erore runther hight.
Throttle (Inoperative Engine)	½ INCH	LISING OPERATING ENGINE FI	IEL TANK
	CRUISE RPM POS	USING OPERATING ENGINE FOR Fuel Selector (Operative Engine)	ON ON
Mixture (Inoperative Engine)	RICH	Fuel Selector (Operative Engine)  Fuel Selector (Inoperative Engine)	OFF
Magnetos (Inoperative Engine)	ON	USING INOPERATIVE ENGINE F	
Starter Switch (Inoperative Engine)	ENGAGE	Fuel Selector (Operative Engine)	X-FEED
WHEN ENGINE STAR		Fuel Selector (Operative Engine)  Fuel Selector (Inoperative Engine)	OFF
Throttle (Until Oil Temp in Green) 15-20"		LANDING	UFF
Alternator	ON	Fuel Selector (Operative Engine)	ON
Fuel Pump (Inoperative Engine)	ON	Fuel Selector (Operative Engine)  Fuel Selector (Inoperative Engine)	OFF
WHEN ENGINE FAILS TO START	ON	i dei Selectoi (illoperative Eligille)	UFF
Fuel Pump (Inoperative Engine)	3 SEC		
Starting Procedure	REPEAT		
Granting Frocedure	REFEAT		