



ANGEL AVIATION®

PA-34-200T NORMAL PROCEDURES

BEFORE 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	FULL RICH
Propellers	FULL FORWARD
Throttles	FULL OPEN
Master Switch	ON
Alternators	ON
Beacon Light (Fin)	ON
Magnetos	ON
Prime	5-10 SECONDS
Throttles	1/8" OPEN
Start switches (one at a time)	ENGAGE
Throttles	800-1000 RPM

AFTER START	
Mixtures	LEAN
Gyro / Oil Pressure	GREEN ARC
NAV / TAXI Lights	AS REQUIRED

BEFORE TAKEOFF	
Doors & Windows	CLOSED & LOCKED
Flight Controls	FREE & CORRECT
Flight / Engine Instruments	SET & CHECK
Annunciator Lights	CHECK
Mixtures	RICH
Throttle(s)	1900 RPM
Propellers	CYCLE
Magnetos	CYCLE
Gyro Pressure	4.5 – 5.2 in Hg.
Throttle(s)	800-1000 RPM
Fuel Selectors	ON
Rudder / Stabilator Trim	SET FOR TAKEOFF
Flaps	SET FOR TAKEOFF
Avionics	SET
Takeoff / Emergency Briefing	COMPLETE

BEFORE LANDING	
Seats & Seat Belts	SECURE
Fuel Selectors	ON
Cowl Flaps	AS REQUIRED
Landing Gear	DOWN (3 GREEN)

AFTER LANDING	
Flaps	UP
Cowl Flaps	OPEN
Mixtures	LEAN

SHUTDOWN	
Heater (if on)	FAN FOR 2 MINUTES
Avionics Master Switch	OFF
Mixtures	IDLE CUT-OFF
Master Switch	OFF
Alternators	OFF
Lights	OFF
Magnetos	OFF

V-SPEEDS	
V _R	71 KIAS
V _X	76 KIAS
V _Y	89 KIAS
V _A @ 4570Lbs	136 KIAS
V _S	63 KIAS
V _{SO}	61 KIAS
V _{FE10} (Flaps 10)	138 KIAS
V _{FE25} (Flaps 25)	121 KIAS
V _{FE40} (Flaps 40)	107 KIAS
V _{LO}	107 KIAS
V _{LE}	129 KIAS
V _{NO}	163 KIAS
V _{NE}	195 KIAS
V _{XSE}	78 KIAS
V _{YSE}	89 KIAS
V _{MC}	66 KIAS
Max Demonstrated X-wind	17 KNOTS

MAGNETO DROP LIMITATIONS	
100 RPM	NORMAL DROP
150 RPM	MAX DROP
50 RPM	DIFFERENTIAL

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-34-200T EMERGENCY PROCEDURES

ENGINE FAILURE ON TAKEOFF

Airspeed	89 KIAS
Gear	UP
Flaps	UP
Inop Engine	IDENTIFY
Inop Engine	VERIFY
Inop engine	FEATHER

ENGINE FAILURE IN FLIGHT

Airspeed	89 KIAS
Mixtures	FULL RICH
Propellers	FULL FORWARD
Throttles (40" Hg.)	FORWARD
Gear	UP
Flaps	UP
Inop Engine	IDENTIFY
Inop Engine	VERIFY
Inop Engine	FIX or FEATHER

FIX INOP ENGINE

Fuel Selector	CROSSFEED
Alternate Air	ON
Fuel Pump	HIGH (Power not restored, OFF)

FEATHER INOP ENGINE

Propeller Inop Engine	FEATHER
Mixture Inop Engine	IDLE CUT-OFF
Fuel Selector Inop Engine	OFF
Cowl Flap Inop Engine	CLOSED
Cowl Flap Operating Engine	OPEN
Alternate Air	OFF
Magnetos Inop Engine	OFF
Alternator Inop Engine	OFF
Electrical Load	REDUCE
Engine Instruments	MONITER

UNFEATHERING PROCEDURE

Fuel Selector	ON
Mixture Inop Engine	FULL RICH
Propeller Inop Engine	FULL FORWARD
Throttle Inop Engine	FULL OPEN
Magnetos	ON
Prime	10 SECONDS
Throttle	1/8" OPEN
Start Switch	ENGAGE

WHEN ENGINE STARTS

Throttle	15-20" Until Temps in Green Arc
Alternator	ON

IF ENGINE FAILS TO START

Starting Procedure	REPEAT
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ENGINE FIRE IN FLIGHT

Fuel Selector Valve	OFF
Throttle	CLOSE
Propeller	FEATHER
Mixture	IDLE CUT-OFF

EMERGENCY DESCENT

Throttles	CLOSED
Propellers	FORWARD
Mixtures	EN-RICH
Gear	EXTEND
Airspeed	129 KIAS

MANUAL GEAR EXTENSION

Airspeed	85 KIAS
Landing Gear Handle	DOWN
Emergency Extension Valve	PULL OUT
Gear	3 GREEN

ELECTRICAL FAILURE ("ALT" LIGHT)

Ammeters	OBSERVE LOAD
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BOTH AMMETERS READ ZERO

(Reduce electrical load to minimum)

Alternator Switches	BOTH OFF
Alternator Switch	ON (One at a time)

(Observe which ammeter shows an electrical load and do not exceed 60 amperes on operating alternator)

ONE AMMETER READS ZERO

Alternator Switch	OFF then ON
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IF OUTPUT NOT RESTORED

Circuit Breaker (5 AMP)	RESET ONCE
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(Located in top right corner of circuit breaker panel)

Electrical Load	REDUCE
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(Continue flight and take corrective action before further flight)

SINGLE ENGINE FUEL MANAGEMENT

USING FUEL FROM TANK ON SAME SIDE AS OPERATING ENGINE

Fuel Selector (Operating Engine)	ON
Fuel Selector (Inoperative Engine)	OFF

USING FUEL FROM TANK ON OPPOSITE SIDE AS OPERATING ENGINE

Fuel Selector (Operating Engine)	X-FEED
Fuel Selector (Inoperative Engine)	OFF

LANDING

Fuel Selector (Operating Engine)	ON
Fuel Selector (Inoperative Engine)	OFF