

PA28-161 Warrior

Quick reference only. Refer to POH for Complete Procedures

PREFLIGHT	
CERT/DOC (ARROW)	ONBOARD
Mx LOG	CHECK
TACH/HOBBS	RECORD
PARKING BRAKE	AS REQUIRED
CONTROL LOCK	REMOVE
MAGNETOS	OFF
MIXTURE	IDLE CUT-OFF
CIRCUIT BREAKERS	CHECK IN
ALT STATIC AIR	CHECK OFF
MASTER SWITCH	ON
FUEL QTY INDICATOR	CHECK
ANNUNCIATORS	ON (DO NOT PUSH)
LIGHTS/PITOT HEAT	CHECK
MASTER SWITCH	OFF
FLAPS	EXTEND
EXTERIOR	USE EXT CHECKLIST

BEFORE STARTING ENGINES	
FLAPS	RETRACT
CHOCKS	REMOVED
BRAKES	SET
AVIONICS MASTER	OFF
PAX BRIEF	S.A.F.E.T.Y.
SEATS/BELTS	UP AND SECURE
ELEC EXCEPT STROBE	OFF
CARB HEAT	OFF
FUEL SELECTOR	FULLEST TANK

ENGINE START	
MIXTURE	FULL RICH
THROTTLE	CRACK OPEN
BATT MASTER & ALTR	ON
PRIMER	AS REQUIRED
STROBES	ON
NAV LGTS (IF NIGHT)	ON
ELEC FUEL PUMP	ON
FUEL PRESSURE	RISE
AREA	CLEAR
MAGNETOS	START
THROTTLE	800-1000
OIL PRESSURE	GREEN
ELEC FUEL PUMP	OFF
FUEL PRESSURE	NO DROP
AVIONICS MASTER	ON

KLAF FREQUENCIES	
ATIS	127.75
TOWER	119.60
GROUND	121.90
FSS	122.35
GRISSOM APCH	123.85
PURDUE AV UNICOM	122.95

PRE-TAXI	
MIXTURE	LEAN 1" FOR TAXI
RADIOS	SET GND/CTAF
TRANSPONDER	ALT, 1200
CLOCK	RUNNING
AIRSPPEED	ZERO
ATTITUDE INDICATOR	ERECT
ATIS/AWOS	OBTAIN
ALTIMETER	SET
DIR GYRO	SET TO COMPASS
VSI	NOTE POSITION
EXTERIOR LIGHTS	STROBES & LDG
CONTACT GROUND IF TOWERED,	
CHECK BRAKES, DG, TURN COORD ON	

GROUND CHECK	
BRAKES	SET
MIXTURE	FULL RICH
THROTTLE	2000 RPM
ENGINE INSTRUMENT	CHECK GREEN
VACUUM	CHECK & TEST
ALTERNATOR	TEST
MAG CHECK	MAX DROP 125 MAX DIF. 50 RPM
CARB HEAT	ON, RPM DROP
THROTTLE	IDLE CHECK
CARB HEAT	OFF
THROTTLE	800-1000

BEFORE TAKEOFF	
RADIOS	SET TO TWR/CTAF
FLIGHT PLAN	SET
DIR GYRO	SET TO COMPASS
ANNUNCIATORS	CHECK & TEST
MIXTURE	CHECK FULL RICH
ELECTRIC FUEL PUMI	ON
ENGINE INSTRUMENT	CHECK
CARB HEAT	OFF
CIRCUIT BREAKERS	CHECK IN
SEATS/SEAT BELT	UP & SECURE
DOORS	CLOSED & LOCKED
FLAPS	SET
TRIM	SET FOR T.O.
CONTROLS	FREE & CORRECT
DEPARTURE BRIEF	COMPLETE
PARK BRAKE	OFF
WINDOWS	AS REQUIRED
EXTERIOR LIGHTS	ALL ON

TAKEOFF	
DIR GYRO	CHECK RWY HDG
THROTTLE	FULL OPEN
ENGINE INSTRUMENT	GREEN
ROTATE	55 KIAS
Vv	79

ENROUTE CLIMB	
AIRSPPEED	87 KIAS
MIXTURE	LEAN ABOVE 3K
ELEC FUEL PUMP	OFF

CRUISE	
POWER	2300 RPM
TRIM	AS REQUIRED
MIXTURE	LEAN FOR CRUISE
FUEL PUMP	VERIFY OFF
SWITCH FUEL TANKS EVERY 15 MIN	

DESCENT/APPROACH	
ATIS/AWOS	OBTAIN
TOWER/CTAF	CONTACT AT 10 NM
EXTERIOR LIGHTS	ALL ON
APCH BRIEF	CONDUCT
SEATS/SEAT BELTS	UP AND SECURE
FUEL SELECTOR	FULLEST TANK
MIXTURE	FULL RICH
ELEC FUEL PUMP	ON

AFTER LANDING	
FLAPS	RETRACT
MIXTURE	LEAN 1" FOR TAXI
ELEC FUEL PUMP	OFF
PITOT HEAT	OFF
LIGHTS TO JUST STROBES & LDG	

SHUTDOWN	
PARKING BRAKE	ON
TRANSPONDER	ALT, 1200
AVIONICS MASTER	OFF
ELEC EXCEPT STROE	OFF
THROTTLE	FULL IDLE
MAGNETOS	GROUND CHECK
THROTTLE	1200 RPM 10 SEC
MIXTURE	IDLE CUT-OFF
MAGNETOS	OFF
BATT MASTER & ALTF	OFF
TACH/HOBBS	RECORD
CONTROL LOCK	IF NEEDED
LANDING GEAR	CHOCK
PARKING BRAKE	OFF
FLIGHT PLAN	CLOSE

UPDATED 04/05/2023



EMERGENCY PROCEDURES

QUICK REFERENCE ONLY. Refer to POH section 3 for complete procedures

ENGINE FIRE DURING START	
STARTER	CONTINUE CRANKING
MIXTURE	IDLE CUT-OFF
THROTTLE	FULL OPEN
ELEC FUEL PUMP	OFF
FUEL SELECTOR	OFF

ENGINE FAILURE IN FLIGHT	
AIRSPPEED	73 KIAS
BEST PLACE TO LAND	AVIGATE, LAND INTO WIND
CHECKLIST:	
FUEL SELECTOR	SWITCH
ELEC FUEL PUMP	ON
MIXTURE	FULL RICH
CARBURETOR HEAT	ON
MAGNETOS	OTH, START IF PROP STOP
ENGINE GAUGES	CHECK

If engine does not restart:

FORCED LANDING	
DECLARE EMERGENCY	121.5, SQUAWK 7700
prep to EVACUATE:	
MAGNETOS	OFF
BATTERY MASTER SWITC	OFF
ALTR SWITCH	OFF
FUEL SELECTOR	OFF
MIXTURE	IDLE CUT-OFF
SEATS/SEAT BELTS	ON AND SECURE
DOORS	OPEN BEFORE LANDING

ALT ANNUNCIATOR LIT AND AMMETER SHOWS ZERO	
ALT SWITCH	OFF
ALT CIRCUIT BREAKER	CHECK AND RESET IF REQ'D
ALT SWITCH	ON
MASTER SWITCH	ON
If power not restored:	
ALT SWITCH	OFF
RADIO/ELEC	ALL NONESSENTIAL OFF
LAND AS SOON AS PRACTICAL	

ENGINE FIRE IN FLIGHT	
FUEL SELECTOR	OFF
THROTTLE	CLOSE
MIXTURE	IDLE CUT-OFF
ELEC FUEL PUMP	CHECK OFF
HEATER/DEFROSTER	OFF
EXCUTE FORCE 5 EXTEND	

ELECTRICAL FIRE IN FLIGHT	
MASTER SWITCH	OFF
ALTR SWITCH	OFF
AIR VENTS	OPEN
CABIN HEAT	OFF
LAND AS SOON AS PRACTICAL	

V-SPEEDS	
V ₆	BEST GLIDE 73
V ₅₀	Stall (Full Flap) 44
V _{s1}	Stall (Flaps retracted) 50
V _r	Rotate 55
V _x	Best Angle of Climb 63
V _y	Best Rate of Climb 79
V _A	Maneuvering Speed 111
V _{FE}	Flaps 103
V _{NO}	Max Normal Operation 126
V _{NE}	Never Exceed 160
	Enroute Climb 87
	Max Demonstrated Crosswind 17

TRAINING PURPOSES ONLY, REFER TO POH SECTION 3 FOR MORE INFORMATION