

PA 28 WARRIOR CHECK LIST

To be used in conjunction with POH

1. PREFLIGHT - COCKPIT CHECK	
LOAD SHEET & PERFORMANCE	CORRECT
PARKING BRAKE	ON
STATIC DRAINS	CHECK
MAGNETOS	OFF
FUEL PUMP	OFF
MIXTURE	ICO
FLIGHT CONTROLS & TRIMS	CHECK
INSTRUMENTS (no damage)	CHECK
ALL ELECTRICS	OFF
BATTERY MASTER	ON
FUEL PUMP	CHECK
FUEL GAUGES	CHECK
ANNUNCIATOR WARNINGS	CHECK

EXTERNAL ELECTRICS CHECK

ANTI COLLISION LIGHTS	ON & CHECK
NAV-LIGHTS	ON & CHECK
LANDING LIGHT	ON & CHECK
PITOT HEATER (3 MIN. MAX.)	ON & CHECK
ELECTRICS & MASTER SWITCH	OFF
FLAPS	EXTEND FULL
COMPLETE THE EXTERNAL CHECK	

2. BEFORE START CHECKS

PASSENGER BRIEF	COMPLETE
DOOR	CLOSED
FLAPS	UP
SEAT BELTS	ON
CARB HT	OFF
CIRCUIT BREAKERS	CHECK
MASTER / ALTERNATOR SW	ON
FUEL	LOWEST TANK
ATIS	OBTAIN
QNH	SET
START CLEARANCE	AS REQ
RADIO	OFF

3. ENGINE START	
BRAKES	ON
ANTI COLLISION LIGHTS	ON
MIXTURE	RICH
THROTTLE	SET
FUEL PUMP	ON
PRIME	(Cold Start) 6 times (Warm Start) 3 times (Hot Start) None
PROPELLER AREA (CALL)	CLEAR
MAGNETOS / STARTER	ON / START
NO FIRE	
OIL PRESSURE	RISING
THROTTLE	1000 rpm
FUEL PUMP	OFF / PRESSURE
ALTERNATOR	CHECK
SUCTION	CHECK

4. ENGINE FIRE (GROUND)

MIXTURE	ICO
THROTTLE	OPEN
FUEL SELECTOR	OFF
STARTER	ENGAGE
R/T CALL	
BATTERY MASTER	OFF
EVACUATE	IF REQ.D

5. AFTER START CHECKS

RADIO / NAV EQUIPMENT	SET
ANNUNCIATOR LIGHTS	OFF & CHECK
COMPASS and DI	CHECK
FLIGHT INSTRUMENTS	CHECK & SET
PITOT HEAT (CHECK AMPS LOAD)	ON /OFF
NAV LIGHTS	AS REQ
TAXI CLEARANCE	OBTAIN

6. TAXI CHECKS

BRAKES	CHECK
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7. ENGINE POWER CHECKS	
AIRCRAFT	INTO WIND
BRAKES	ON
THROTTLE	SET 1000 rpm
FUEL SELECTOR (FUEL LOG)	FULLEST TANK
MIXTURE	RICH
THROTTLE (LOOKOUT)	SET 2000 rpm
CARB HT	CHECK
MAGNETOS	CHECK
SUCTION	CHECK
ANNUNCIATORS	CHECK & OFF
ENGINE INSTRUMENTS	CHECK
IDLE RPM CHECK 5 - 700 RPM	RESET 1000 RPM

9. BEFORE Rwy ENTRY CHECKS (FLOWCHECK)

FUEL SELECTOR	ON
MAGNETOS	ON BOTH
FLIGHT CONTROLS	FULL & FREE
ALTIMETERS	SET & X-CHECK
PRIMER	LOCKED
MIXTURE	RICH
THROTTLE FRICTION	SET
CARB HT	COLD
FUEL PUMP	ON
LANDING LIGHT	AS REQ
ANTI COLLISION LIGHTS	ON
FLAPS	ZERO / AS REQ
TRIMS	SET
HARNES / SEATS	SECURE
DOOR	CLOSED
CAPTAIN'S TAKE OFF BRIEF	
WIND	CHECK
LINE UP CLEARANCE	OBTAIN

10. RUNWAY ENTRY CHECKS

RUDDER (on runway)	CHECK
FLIGHT INSTRUMENTS	CHECK
TRANSPONDER	ALT

11. LINE UP CHECKS	
TAKE-OFF CLEARANCE	OBTAIN
PITOT HEAT	AS REQ
DI / COMPASS	CHECK HDG.
POWER (AGAINST BRAKES)	2000 RPM
CARB HT	CHECK
ENGINE INSTRUMENTS	CHECK
BRAKES RELEASE: APPLY FULL POWER	

12. AFTER TAKE-OFF / MISSED APP

FLAPS (300 FT AGL.)	RETRACT
LANDING LIGHT (1000 FT AGL.)	OFF
FUEL PUMP (1000 FT AGL.)	OFF & CHECK

13. CLIMB & ENROUTE CHECKS

FUEL-TANK/ QUANTITY/ PUMP	CHECK
RADIOS / NAV EQUIP.	SET
ENGINE INSTRUMENTS	CHECK
DI / COMPASS	CHECK
ALTIMETERS	CHECK

14. PRE DESCENT/ APPROACH CHECKS

ATIS	OBTAIN
ALTIMETERS	SET & X-CHECK
MSA / MEF	CHECK
MIXTURE	AS REQ
ICING / CARB HT	CHECK
ENGINE INSTRUMENTS	CHECK

15. PRELANDING CHECKS

BRAKES	OFF
UNDERCARRIAGE	FIXED
MIXTURE	RICH
PROPELLOR	FIXED
FUEL TANK / QUANTITY /PUMP	CHECK
FLAPS	1st STAGE
INSTRUMENTS	CHECKED & SET
CARB HEAT	ON
HATCHES & HARNESSES	SECURE

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16. CHECKS ON FINAL	
CARB HT (200 FT AGL)	OFF
CLEARANCE	OBTAINED
RUNWAY	CLEAR
WIND	NOTED
FLAPS	AS REQ

17. MISSED APPROACH	
THROTTLE /MIXTURE	FORWARD
DRAG FLAP	RETRACT
POSITIVE ROC	FLAPS RETRACT
AIRSPPEED	79 KT

17. RUNWAY CLEAR CHECKS (FLOW CHECK)	
AIRCRAFT	STOP
TRANSPONDER	STANDBY
FUEL PUMP	OFF
LANDING LIGHTS	OFF
PITOT HEAT	OFF
CARB HT	OFF
FLAPS	RETRACT
TRIMMERS	NEUTRAL

18. SHUTDOWN CHECKS	
BRAKES	ON
THROTTLE	1000 RPM
AVIONICS MASTER SWITCH	OFF
TRANSPONDER	OFF (7000)
MIXTURE	IDLE CUT OFF
MAGNETOS	OFF
NAV AND PANEL LIGHTS	OFF
ANTI COLLISION LIGHT	OFF
COCKPIT LIGHT	OFF
BATTERY MASTER	OFF

19. SECURE AIRCRAFT	
CHOCKS	IN PLACE
CONTROLS	SECURE
COVERS	SECURE
TIE DOWNS	SECURE

20. PA28 AIRCRAFT DATA	
WEIGHTS	
MTOW	2325 lbs
MLW	2325 lbs
Max Baggage Weight	200 lbs

SPEEDS	
Vne - never exceed	160Kts
Vno - normal operation	126Kts
Va - maneuvering	111Kts
Vfe - max flap extend	103Kts
Vso	54Kts
Turbulent air Ops.	111Kts
Vx - angle of climb	63Kts
Vy - rate of climb	79Kts
Vref - Normal	63Kts
Vref - Flapless	70Kts
Best Glide (Clean)	73Kts
Crosswind Limit	17 kts

FUEL AND OIL	
Usable Fuel Quantity	180 Litres
Fuel Consumption	30 Litres / Hr.
Oil Quantity	6 Quarts
Oil Consumption	½ Qt / 2 Hrs.

POWER, ATTITUDE AND SPEED DATA	
Rotate Max / 2700rpm 10° NU	64Kts
Initial Climb Max rpm 4° NU	79Kts
Normal Climb	100Kts
Cruise - 2350rpm	100kts
Slow Cruise - 2150rpm	90kts
Descent - 2000 / 3° ND 500' / min	100kts
Descent - 1800 / 5° ND 750' / min	100Kts
Slow Dcent - 1500 / 2° ND 500' / min	80kts
Circuit	100Kts
Base flap 25 / flapless	75Kts
Final Powered Flap 40 / Vref	70Kts / 63kts
Final Glide / Vref	75kts / 65kts
Final Flapless / Vref	75kts / 70kts

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21. ENGINE FIRE ON GROUND	
MIXTURE	ICO
THROTTLE	OPEN
FUEL SELECTOR	OFF
STARTER	ENGAGE
R/T CALL	
BATTERY MASTER	OFF
EVACUATE	AS REQ'D

22. ENGINE FIRE IN FLIGHT	
FUEL SELECTOR	OFF
FUEL PUMP	OFF
THROTTLE	CLOSED
MIXTURE	ICO
MAGNETOS	OFF
CABIN VENTS	CLOSED

23. ELECTRICAL FIRE	
BATTERY MASTER	OFF
ALTERNATOR SWITCHES	OFF
ELECTRICS & AVIONICS	OFF
CIRCUIT BREAKERS	PULL
CABIN VENTS	OPEN
CABIN HEAT	OFF
IF FIRE GOES OUT	
BATTERY MASTER	ON
SERVICES	RESTORE

24. ALTERNATOR FAILURE	
VERIFY FAILURE & REDUCE ELECTRICAL LOAD	
ALTERNATOR CB	CHECK
ALT SWITCH	CYCLE
IF NO OUTPUT	ALT OFF

24. ENGINE FAILURE AFTER TAKE OFF	
LOWER NOSE	80 KTS
PICK A FIELD 15° EITHER SIDE OF THE NOSE	
FUEL SELECTOR	OFF
MAGNETOS	OFF
THROTTLE	CLOSED
MIXTURE	IDLE CUT OFF
FLAPS	AS REQ
MAYDAY CALL	IF POSSIBLE
MASTER SWITCH	OFF
DOOR	OPEN

24. ENGINE FAILURE IN FLIGHT	
GLIDE SPEED	75 KTS
PICK A FIELD	
PLAN THE APPROACH	
IF ABOVE 1000' AGL TRY RE-START	
FUEL SELECTOR	ON / CHANGE
TEMPS /PRESSURES	IN GREEN
MAGNETOS	BOTH
MIXTURE	RICH
MASTER / ALT SWITCH	ON
FUEL PUMP	ON
STARTER	ENGAGE

24. IF ENGINE DOES NOT RESTART	
SECURE ENGINE: -	
FUEL SELECTOR	OFF
MAGNETOS	OFF
FUEL PUMP	OFF
MIXTURE	ICO
MAYDAY CALL	MAKE
PASSENGER BRIEF	GIVE
MASTER / ALT SWITCH	OFF
DOOR	OPEN

CAPTAIN'S BRIEF

In the event of engine failure before Vr or 65Kts --
I will close the Throttle and STOP on the Runway

In the event of an engine failure after Take Off with runway remaining
I will land ahead using full flaps

In the event of an Engine Failure with no runway remaining
I will Pick a suitable field either side of the nose of the aircraft
and carry out an emergency landing using EFATO checks

ITEMS TO BE DEALT WITH IN PASSENGER BRIEF

Hatches, Harnesses, Fire Extinguisher, First Aid Kit, Evacuation Procedure,

NO SMOKING MOBILES OFF, HANDS and FEET CLEAR of CONTROLS --
BRACE POSITION

Note: All RED & BLUE Checks Are MEMORY ITEMS.

IR PROCEDURES & CHECKS

Glide Slope Intercept	1/4 Scale Def.
Flaps	25 (2 Eng.)
Reds	Full Rich
Blues	Fixed
Greens	Fixed

Hold Procedure	
Temps & Pressures	CHECK
Carb Heat	CHECK
ADF	IDENT
Icing	Temp / Ice

Outbound For The Approach:	
BRIEF	Nav aids
NAVAIDS	Frequencies
Pre Landing Checks	Idents
	Displays