**TECNAM P2010**

**NORMAL PROCEDURES CHECKLIST**

\*This is to be used as a REFERENCE ONLY, it is not a substitute for the Airplane Flight Manual.

\*Refer to AFM/POH for amplified procedures. User assumes all risk of use in using this product. User consents to and understands that American Flight Schools bears no liability for the use of this product.

|  |  |
| --- | --- |
| Vr………………………60 | Vno…………...…….132 |
| Vy (SL)flaps up.… 82 | Vne…………..…..….166 |
| Vx (SL)flaps up…..75 | App (T/O) …………75 |
| Vx (SL)flaps T/O...65 | App (FULL) ……….70 |
| Vso………………….…50 | Va ……….................120 |
| Vs……………..…….... 59 | Best Glide..….……..85 |
| Vfe………..…..............91 | Max T/O……2557lbs |
| Max Xwind…………12 | Max LND…...2557lbs |



|  |  |
| --- | --- |
| KAPA - Tower | 118.9 |
| KAPA - Ground | 121.8 |
| KAPA - ATIS | 120.3 |
| KAPA - Approach | 132.75 |
| KBJC - Tower | 118.6 |
| KBJC - Ground | 121.7 |
| KBJC - ATIS | 126.25 |
| KBJC - Approach | 126.1 |
| KFTG - Tower | 120.2 |
| KFTG - Ground | 124.7 |
| KFTG – ATIS | 119.25 |
| FSS | 122.2 |

**BEFORE STARTING ENGINE**

1. Seats and safety belts …..…..… adjusted
2. Flight controls………............................. free
3. Throttle friction …………………..….adjust
4. Throttle ……………………………………IDLE
5. Propeller Lever ………………. HIGH RPM
6. Mixture ……………………………….…..LEAN
7. Circuit Breakers ……………………....check
8. Master switch …………………….…….….ON PFD turn on, Check ALT OUT caution ON,

Check LOW FP and LOW OP warning ON

1. Standby instrument check:
2. Standby Instrument: Check no red crosses displayed.
3. Press and hold the control knob (approx. 2 sec)
4. Rotate the knob selecting “INFO>” page then press it
5. Select “BATTERY INFO” page then press the knob
6. Check “CHARGE (%)” more than 80%, then exit menu
7. Avionic Master …………………………....ON
8. Fuel quantity …………………………. Check
9. Electric fuel pump ……………………… ON
10. Warning “LOW FUEL PRESSURE” ………..extinguished
11. Electric fuel pump ……………………...OFF
12. Flap control …………………….. set to T/O
13. Pitch Trim ……………… set to NEUTRAL
14. Rudder trim …………….set to NEUTRAL
15. Strobe & Nav lights ……………………...ON
16. Doors ……………………Closed and locked

 **NORMAL START- COLD ENGINE**

1. Throttle ……………………open(1/2 inch)
2. Fuel selector ……..select the tank with less fuel
3. Electric fuel pump ……………………….ON
4. Mixture………………...full open for 3 – 5” (positive fuel flow indication) then CUT-OFF
5. Propeller area ……………………….….clear
6. Ignition key ……………………….…..START
7. Mixture …………………………...FULL RICH
8. Throttle ………………...1000 – 1200 RPM
9. Oil pressure ………...rises within 10 sec.
10. Check “OIL PRESSURE LOW” ………OFF
11. Electric fuel pump ……………………...OFF

13. Check fuel pressure ……….within limits

14. Generator switch …………………………ON

15. Voltmeter …………………………..……check

16. ALT FAIL caution ……….….extinguished

17. Nav. and taxi light ……………………......ON

18. Engine instruments …………………Check

19. Check G1000 for warning/caution messages

**NORMAL START- HOT ENGINE**

* + 1. Engine throttle ………………………….IDLE
		2. Fuel selector ……..select the tank with less fuel
		3. Electric fuel pump ……………………….ON
		4. Propeller area ………………………..…clear
		5. Ignition key …………………………...START
		6. Mixture …………………………...FULL RICH
		7. Throttle ………………...1000 – 1200 RPM
		8. Oil pressure ………...rises within 10 sec.
		9. Electric fuel pump ……………………...OFF
		10. Check fuel pressure ………within limits
		11. Generator switch ………………………...ON
		12. Voltmeter ……………….………………check
		13. ALT FAIL caution ………….extinguished
		14. Engine instruments ……………...….check
		15. Check G1000 for warning / caution messages

**BEFORE TAXIING**

1. Flight instruments and avionics: set, TEST functions
2. Altimeters ………………………….…XCheck
3. Pitot Heat …………ON, test for ammeter ………………………….indication, then OFF
4. Auto-Pilot Master……………………

**TAXIING**

1. Parking brake ……………………….Release
2. Brakes …………………………………….check
3. Flight instruments ….…check altimeter
4. Mixture…………………………………..……Set

**BEFORE TAKEOFF (RUN-UP)**

1. Engine instruments …………………Check
2. ALT OUT caution ……………OFF (check)
3. Autopilot Master......................................ON
4. Electric Trim Disc....................................ON
5. Electric Fuel pump ………………………ON
6. Fuel selector valve …….…… fullest tank
7. Fuel pressure …………………………..check
8. Throttle ………………………….. 1500 RPM
9. Alternate Air ……….....................Extended
10. Throttle ……………………………2100 RPM
11. Mixture …………………………..…1375 EGT
12. Propeller Lever …………………cycle (3x)
13. Magnetos …………………………….…..check

(max drop 175 rpm, Max difference 50 rpm)

1. Throttle ……………………………………..Idle
2. Throttle.....................................................RPM
3. Flaps …………………………………….set T/O
4. Pitch and Rudder trim …………...neutral
5. Flight controls …………………………... free
6. Seat belts …………………..check fastened
7. Doors …………..check closed and locked
8. Parking brake ……………………….Release
9. Landing light …………………..as required
10. XPDR …………………………………………..ON
11. Departure Brief ………………..completed

**TAKEOFF**

1. Pitot HEAT ………………….ON if required
2. Fuel pump …………………………………...ON
3. Brakes ……………………………………..apply
4. Throttle………………………..FULL POWER
5. Engine instruments ………………….check
6. Brakes ………………………………….Release
7. Rotation ……………………………….60 KIAS
8. Climb Airspeed …......………………67 KIAS

Above a safe height:

1. Propeller lever ………………….2600 RPM
2. Landing lights …………………………….OFF

**CLIMB**

1. Flaps …. UP (minimum speed 73 KIAS)
2. Establish climb Vy ………...…….. 82 KIAS
3. Electrical fuel pump …………………...OFF
4. Fuel pressure …………………………..check
5. Throttle …………………………………...FULL
6. MIXTURE ………………………..………….SET
7. Lights…………………………………………SET
8. Engine instruments ……………… GREEN

**CRUISING**

1. Power …………………………………..(>75%)
2. Propeller lever ………...1800-2500 RPM
3. Fuel tank selector ……………as required
4. Mixture …………….SET(1375 MAX EGT)
5. Lights………….…………………As Required

**DESCENT**

1. Mixture control …………………………..SET
2. Propeller lever …………………………...SET
3. Throttle ……………………………………..SET

**BEFORE LANDING**

1. Electric fuel pump ……………………….ON
2. Fuel valve ………..select the fullest tank
3. Landing Light ……………………………...ON
4. On downwind, leg abeam touch down point:
5. Flaps…………….set T/O (below 90KIAS)
6. Approach speed……………………..…..SET
7. Mixture control lever ………………..RICH
8. Propeller Lever ………………..HIGH RPM
9. Flaps ……………………………………... LAND
10. Final Approach Speed ……………..… SET
11. Optimal touchdown speed ...….70 KIAS

**BALKED LANDING/MISSED APPROACH**

1. Throttle……………………………………FULL
2. Speed……………...........keep over 80 KIAS ………….climb to VY or VX as applicable
3. Flaps position……………………………..T/O

**GO-AROUND**

1. Throttle……………………………………FULL
2. Speed……………………keep over 80 KIAS ………….climb to VY or VX as applicable
3. Flaps position……………………………..T/O

**AFTER LANDING**

1. Throttle ……………………………………..Idle
2. Brakes ……………………………………..apply
3. Pitot heat ………………………..OFF (if ON)
4. Flaps …………………………………………...UP
5. Electric Fuel Pump ……………………..OFF
6. XPDR …………………………………………OFF
7. Landing light ……………………………...OFF

**STOPPING ENGINE**

1. Parking brake …………………………..SET
2. Keep engine running at 1200 propeller rpm for about one minute in order to reduce latent heat.
3. Tach Time (MFD engine page)....record
4. Autopilot Master..……………………….OFF
5. Electric Trim Disc...........……………….OFF
6. Avionic equipment ……………………..OFF
7. Throttle ……………………………………...idle
8. Magnetos …………….Check OFF – BOTH
9. Mixture …………………………………..closed
10. Ignition key …………..OFF, key removed
11. Strobe light ………………………………..OFF
12. Avionic Master …………………………. OFF
13. Master & Generator switches ……. OFF
14. Fuel selector valve ……………………..OFF

**PARKING**

1. Flight controls ………………………..locked
2. Wheel chocks and Tie Down ......secure
3. Parking brake ……………………….Release
4. Doors …………………………Close and lock
5. Protection plugs ……………………...install