

MOORABBIN AVIATION SERVICES PTY LTD

PA28 (PIPER WARRIOR) CHECKLIST

<p><u>PRE START</u></p> <p>Daily complete Flight Manual.....In A/C Maintenance Release checked/signed Licence/Medicalcurrent/on board Loose items.....stowed Seat.....adjusted Harnesses.....secure Park Brake on Fuel.....on lowest tank Carburetor Heat off Avionics off Switches off Circuit breakersin</p> <p><u>START CHECKS</u></p> <p>Mixturerich Throttle 1 cm open Prime Cold – 5 times, Hot – 0 times Master/Alternator On Check/Call “Clear Prop” Magnetos start</p> <p><u>AFTER START</u></p> <p>Revs..... set 1000 rpm Oil pressure green within 30 secs Suction.....4.8” – 5.1” Hg Flaps retracted Ammeter.....positive charge Radio on/check ATIS/back to gnd Beacon..... on</p> <p><u>TAXI CHECKS</u></p> <p>Brakes.....checked Instrumentsturning checks</p>	<p><u>PRE T/O VITAL ACTIONS</u></p> <p>T..... trims set, throttle friction adjusted M..... mixture rich/master on/mags on both P..... primer – locked Fuel..... pump on, change tanks, pump off check pressure, Flaps check through Range. I..... instruments checked and set auto pilot checked S..... switches (on as required) C..... controls full & free H..... hatches & harnesses secure</p> <p><u>RUN-UP CHECKS</u></p> <p>Park brake on Oil temp & pressuregreen arc Lookout.....all clear Throttleset 2000 rpm Magnetosleft, both, right, both max drop 125 RPM, max diff 50 RPM Carb Heat...on 30 sec, check, drop then off Check for a rise to 2000 Ammeter positive charge Suction 4.8” – 5.1” Hg Slow idle 6-800 RPM Throttleset 1000 rpm</p> <p><u>PRE LINE UP CHECKS</u></p> <p>P..... fuel pump on I..... instruments, DG to compass S..... strobes on T..... transponder to ALT R..... Radio, Change Frequency</p> <p><u>AFTER T/O CHECKS</u></p> <p>Flaps..... retracted 200ft Power set to full Oil temp & pressuregreen arc Fuel pump off 500ft, pressure checked</p>	<p><u>PRE MANOEUVRE CHECKS</u></p> <p>H..... Height sufficient to recover by 3000ft A..... Airframe config appropriate S..... Security of harnesses/loose objects E..... Engine T’s P’s in green L..... Location not over built up area/AD L..... Lookout 360 clearing turn</p> <p><u>PRE LANDING CHECKS</u></p> <p>B..... Brakes, check pressure and off U..... Undercarriage down M..... Mixture rich, Masters on Mags both F..... Fuel pump on, press & contents O..... Oil Temp & Pressure H..... Hatches & Harnesses secure</p> <p><u>AFTER LANDING CHECKS</u></p> <p>Flapsretract Fuel Pump off Strobes..... off Transponder.....STBY Radio to GND</p> <p><u>SHUTDOWN</u></p> <p>Park brake..... on Throttle set 1000 rpm Magnetoscheck for RPM drop Avionics off Beacon..... off Mixtureidle cut off Master/Alternator off Magnetosoff, key out</p> <p><u>POST FLIGHT</u></p> <p>Controlssecure Hatchessecure Tie downssecured</p>	<p><u>RADIO FREQUENCIES</u></p> <p>MB GROUND 119.9 MHz MB TOWER (EAST) 118.1 MHz MB TOWER (WEST)..... 123.0 MHz MB ATIS 398 or 120.9 MHz</p> <p>EN GROUND 121.9 MHz EN TOWER 125.1 MHz EN ATIS 356 or 119.8 MHz</p> <p>ML RAS..... 135.7 MHz ML APP 124.7 MHz ML DEP..... 118.9 or 129.4 MHz ML TWR 120.5 MHz ML SMC 121.7 MHz ML ACD 127.2 MHz ML ATIS 114.1 or 132.7 MHz</p>
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Note: This is only meant as a guide. Always ensure that you consult the actual aircraft flight manual and your flight instructor prior to use.

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EMERGENCY PROCEDURES

ENGINE FIRE DURING START

Starter crank engine
 Mixture idle cut off
 Throttle open
 Electric fuel pump off
 Fuel selector off

Abandon if fire continues

ENGINE FAILURE IN FLIGHT

INITIAL ACTIONS:

CHECK FOR FIRE

Carburetor Heat on
 Mixture through range, set to rich
 Fuel on, pump on, change tanks
 Switches check magneto's

**ASSESS WIND
 SELECT FIELD
 MAKE PLAN**

TROUBLE CHECKS:

Fuel on, contents and pressure checked
 Mixture through range, set rich
 Oil temps and pressure
 Switches check magnetos
 Throttle through range set 1/3 position

MAYDAY CALL

SHUTDOWN CHECKS:

Brakes check pressure and off
 Undercarriage down
 Switches all off, fuel off
 Hatches and harnesses secure

ENGINE FIRE IN FLIGHT

Mixture idle cut-off
 Throttle closed
 Fuel Pump off
 Fuel Selector off
 Heater off
 Defroster off

Proceed with

POWER OFF LANDING

LOSS OF OIL PRESSURE / HIGH OIL TEMPERATURE

Land as soon as possible and investigate cause.

Prepare for power off landing

For other emergency procedures refer to section 3 of the Pilots Operating Handbook.

P28A (PIPER WARRIOR) DATA

AIRSPEEDS

Basic Stall Speed (V_{S1}) 50 KIAS
 Stall with Flap (V_{S0}) 44 KIAS
 Best Climb Angle (V_X) 63 KIAS
 Best Climb Rate (V_Y) 79 KIAS
 Cruise Climb (Normal) 87 KIAS
 Flap Limit Speed (V_{FE}) 103 KIAS
 Threshold 65 KIAS
 Manoeuvre Speed (V_A) 88 - 111 KIAS
 Flight Planning TAS 105 KTAS

Maximum Cruising (V_{NO}) 126 KIAS
 Never Exceed (V_{NE}) 160 KIAS
 Best Glide 73 KIAS
 TOSS 64 KIAS
 Base 80 KIAS
 Final 70 KIAS
 Over Threshold 65 KIAS
 Maximum Crosswind 17 KIAS

WEIGHT LIMITATIONS

Max Takeoff Weight 1055 Kg
 Empty Weight: Refer flight manual
 Max Baggage Weight

FUEL

Type: 100 Octane Avgas (green) or 100 LL (blue)
 Quantity: Total 189 lt, Useable 181 lt (fuel flow at 75%)
 Typical Consumption: 35 lt per hour
 Endurance with 45 min reserve intact: 5 hrs

POWER SETTINGS

Max RPM **2700** RPM
 Static RPM

ENGINE

Avco Lycoming IO-320 D2A or D3G
 4 cylinder, horizontally opposed, direct drive, air cooled, fuel injected
 Output: 160 Hp @ 2700 rpm

OIL

Type: Aviation grade D100
 Quantity: Max 8 US quarts, Min 6 US quarts (Company reqts)