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NORMAL PROCEDURES

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SECTION 4
NORMAL PROCEDURES

4.1 GENERAL

This section describes the recommended procedures for the conduct of normal operations for the Warrior II. All of the required (FAA regulations) procedures and those necessary for operation of the airplane as determined by the operating and design features of the airplane are presented.

Normal procedures associated with those optional systems and equipment which require handbook supplements are provided by Section 9 (Supplements).

These procedures are provided to present a source of reference and review and to supply information on procedures which are not the same for all aircraft. Pilots should familiarize themselves with the procedures given in this section in order to become proficient in the normal operations of the airplane.

The first portion of this section consists of a short form checklist which supplies an action sequence for normal operations with little emphasis on the operation of the systems.

The remainder of the section is devoted to amplified normal procedures which provide detailed information and explanations of the procedures and how to perform them. This portion of the section is not intended for use as an in-flight reference due to the lengthy explanations. The short form checklist should be used for this purpose.
4.3 AIRSPEEDS FOR SAFE OPERATIONS

The following airspeeds are those which are significant to the safe operation of the airplane. These figures are for standard airplanes flown at gross weight under standard conditions at sea level.

Performance for a specific airplane may vary from published figures depending upon the equipment installed, the condition of the engine, airplane and equipment, atmospheric conditions and piloting technique.

| (a) Best Rate of Climb Speed                   | 90 KIAS |
| (b) Best Angle of Climb Speed                  | 78 KIAS |
| (c) Turbulent Air Operating Speed (See Subsection 2.3) | 118 KIAS |
| (d) Maximum Flap Speed                         | 103 KIAS |
| (e) Landing Final Approach Speed (Flaps 40°)    | 75 KIAS |
| (f) Maximum Demonstrated Crosswind Velocity    | 17 KTS  |
WALK-AROUND
Figure 4-1

4.5 NORMAL PROCEDURES CHECKLIST
4.5a Preflight Checklist (4.9)

CAUTION

The flap position should be noted before boarding the airplane. The flaps must be placed in the UP position before they will lock and support weight on the step.

COCKPIT (4.9a)

Control Wheel ............................................................. release restraints
Gear Handle ...................................................................... DOWN
Parking Brake ................................................................. SET
Avionics ........................................................................... OFF
All Switches ...................................................................... OFF
Mixture ............................................................................ IDLE CUT-OFF
Magneto Switch .............................................................. OFF
BATT MASTR Switch ....................................................... ON
4.5a Preflight Checklist (4.9) (continued)

COCKPIT (4.9a) (continued)

Fuel Gauges .......................................................... check QUANTITY
Annunciator Panel ..................................................... CHECK
BAT'T MASTR Switch .................................................. OFF
Primary Flight Controls ..................................... PROPER OPERATION
Flaps .............................................................. PROPER OPERATION
Trim .............................................................. NEUTRAL
Pitot and Static Systems ......................................... DRAIN
Windows .......................................................... check CLEAN
Required Papers and POH ........................................ check ON BOARD
Tow Bar and Baggage ............................................. STOW PROPERLY - SECURE
Baggage Door ....................................................... CLOSE and SECURE

RIGHT WING (4.9b)

Surface Condition ............................................ CLEAR of ICE, FROST, SNOW
Flap and Hinges ..................................................... CHECK
Aileron and Hinges ............................................... CHECK
Static Wicks .......................................................... CHECK - SECURE
Wing Tip and Lights .............................................. CHECK
Fuel Tank .......................................................... CHECK supply visually - SECURE cap
Fuel Tank Vent ....................................................... CLEAR

CAUTION

When draining any amount of fuel, care should be taken to ensure that no fire hazard exists before starting engine.

Fuel Tank Sump ....................................................... DRAIN and CHECK for water, sediment, and proper fuel
Tie Down and Chock .................................................. REMOVE
Main Gear Strut ..................................................... PROPER INFLATION (2.0 +/- 0.25 in.)
Tire ................................................................. CHECK
Brake Block and Disc ............................................ CHECK
Fresh Air Inlet ....................................................... CLEAR
4.5a Preflight Checklist (continued)

NOSE SECTION (4.9c)

General Condition ................................................. CHECK
Cowling ................................................................. SECURE
Oil ................................................................. CHECK QUANTITY
Dipstick .......................................................... PROPERLY SEATED
Oil Filler Cap .................................................. SECURE
Engine Baffle Seals ........................................... CHECK
Windshield ......................................................... CLEAN
Propeller and Spinner ........................................... CHECK
Air Inlets ............................................................ CLEAR
Alternator Belt .................................................. CHECK TENSION
Landing Light .................................................... CHECK
Chock ................................................................. REMOVE
Nose Gear Strut .................................................. PROPER INFLATION
(2.75 +/- 0.25 in.)
Nose Wheel Tire .................................................. CHECK

CAUTION

When draining any amount of fuel, care should be taken to ensure that no fire hazard exists before starting engine.

Fuel Strainer ........................................................ DRAIN

LEFT WING (4.9d)

Surface Condition ........................................... CLEAR of ICE, FROST, SNOW
Stall Warning Vane ............................................. CHECK
Fuel Tank ......................................................... CHECK Supply
visually - SECURE CAP
Fresh Air Inlet .................................................. CLEAR
Chock ................................................................. REMOVE
Main Gear Strut .................................................. PROPER INFLATION
(2.0 +/- 0.25 in.)
Tire ................................................................. CHECK
Brake Block and Disc ........................................... CHECK
Fuel Tank Vent .................................................... CLEAR

CAUTION

When draining any amount of fuel, care should be taken to ensure that no fire hazard exists before starting engine.
4.5a Preflight Checklist (continued)

LEFT WING (4.9d) (continued)

Fuel Tank Sump ............................................. DRAIN and CHECK  
for water, sediment,  
and proper fuel  
- REMOVE  
Tie Down .................................................. REMOVE COVER  
Pitot Mast .................................................. HOLE CLEAR  
Wing Tip and Lights ...................................... CHECK  
Aileron and Hinges ....................................... CHECK  
Flap and Hinges .......................................... CHECK  
Static Wicks ............................................... CHECK - SECURE

FUSELAGE (4.9e)

Antennas ..................................................... CHECK  
Left Static Vent .......................................... CLEAR  
Fresh Air Inlet ........................................... CLEAR  
Empennage .................................................. CLEAR of ICE,  
- FROST, SNOW  
Stabilator and Trim Tab ................................... CHECK  
Tie Down ..................................................... REMOVE  
Right Static Vent ........................................... CLEAR  
BATT MASTR Switch ...................................... ON  
Cockpit Lighting .......................................... CHECK  
Navigation and Strobe Lights ................................ CHECK  
Landing Light .............................................. CHECK  
Stall Warning .............................................. CHECK  
Pitot Heat .................................................... CHECK  
All Switches ............................................... OFF  
BATT MASTR Switch ...................................... OFF  
Passengers ................................................... BOARD  
Cabin Door .................................................. CLOSE and SECURE  
Seat Belts and Harness .................................. FASTEN - CHECK inertia reel

4.5b Before Starting Engine Checklist (4.11)

BEFORE STARTING ENGINE (4.11)

Brakes .......................................................... SET  
Circuit Breakers ............................................ IN  
Alternate Air ............................................... OFF  
Propeller ................................................... FULL, INCREASE RPM  
Avionics ..................................................... OFF  
Fuel Selector ................................................ DESIRED TANK

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Delaware State University
4.5c Engine Start Checklist (4.13)

NORMAL START - COLD ENGINE (4.13)

Throttle.............................................. 1/2 INCH OPEN
ALTR Switch......................................... ON
BATT MASTR Switch............................... ON
Electric Fuel Pump.............................. ON
Mixture................................................ RICH - then IDLE
Propeller........................................... CLEAR
Starter................................................ ENGAGE
Mixture............................................... FULL RICH
Throttle............................................. ADJUST
Oil Pressure...................................... CHECK

NORMAL START - HOT ENGINE (4.13b)

Throttle.............................................. 1/2 INCH OPEN
ALTR Switch......................................... ON
BATT MASTR Switch............................... ON
Electric Fuel Pump.............................. ON
Mixture................................................ IDLE CUT-OFF
Propeller........................................... CLEAR
Starter................................................ ENGAGE
Mixture............................................... ADVANCE
Throttle............................................. ADJUST
Oil Pressure...................................... CHECK

ENGINE START WHEN FLOODED (4.13c)

Throttle.............................................. FULL OPEN
ALTR Switch......................................... ON
BATT MASTR Switch............................... ON
Electric Fuel Pump.............................. OFF
Mixture................................................ IDLE CUT-OFF
Propeller........................................... CLEAR
Starter................................................ ENGAGE
Mixture............................................... ADVANCE
Throttle............................................. RETARD
Oil Pressure...................................... CHECK

ENGINE START WITH EXTERNAL POWER SOURCE (4.13d)

BATT MASTR Switch............................... OFF
ALTR Switch......................................... OFF
All Electrical Equipment...................... OFF
4.5c Engine Start Checklist (4.13) (continued)

ENGINE START WITH EXTERNAL POWER SOURCE (4.13d) (continued)

Terminals .......................................................... CONNECT
External Power Plug ........................................... INSERT in receptacle
Proceed with normal start.
Throttle .......................................................... LOWEST POSSIBLE RPM
External Power Plug ........................................... REMOVE from receptacle
BATT MASTR Switch ........................................... ON
ALTR Switch ...................................................... ON - CHECK AMMETER
Oil Pressure ......................................................... CHECK

CAUTION

It is possible to use the ship's battery in parallel by turning only the battery master switch ON. This will give longer cranking capabilities, but will not increase the amperage. Care should be exercised because if the ship's battery has been depleted, the external power supply can be reduced to the level of the ship's battery. This can be tested by turning only the battery master switch ON momentarily while the starter is engaged. If cranking speed increases, the ship's battery is at a higher level than the external power supply.

NOTE

For all normal operations using the PEP jumper cables, the battery master and alternator switches should be OFF.

4.5d Warm-Up Checklist (4.15)

WARM-UP (4.15)

Throttle .......................................................... 1400 to 1500 RPM
4.5e Taxiing Checklist (4.17)

**TAXING (4.17)**

- Taxi Area: CLEAR
- Parking Brake: RELEASE
- Propeller: HIGH RPM
- Throttle: APPLY SLOWLY
- Brakes: CHECK
- Steering: CHECK

4.5f Ground Check Checklist (4.19)

**GROUND CHECK (4.19)**

- Parking Brake: SET
- Propeller: FULL INCREASE
- Throttle: 2000 RPM
- Magneto: CHECK
  - max. drop 175 RPM
  - max. diff. 50 RPM
- Vacuum: 4.8 to 5.1 inches Hg
- Oil Temperature: CHECK
- Oil Pressure: CHECK
- Ammeter: CHECK
- Annunciator Panel: PRESS-TO-TEST
- Propeller: EXERCISE - then FULL INCREASE
- Alternate Air: CHECK
- Engine is warm for takeoff when throttle can be opened without engine faltering.
- Electric Fuel Pump: OFF
- Fuel Pressure: CHECK
- Throttle: RETARD

4.5g Before Takeoff Checklist (4.21)

**BEFORE TAKEOFF (4.21)**

- BATT MASTR Switch: ON
- ALTR Switch: ON
- Flight Instruments: CHECK

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SOFT FIELD, NO OBSTACLE

Flaps .................................................. 25° (second notch)
Accelerate and lift off nose gear as soon as possible. Lift off at lowest possible airspeed. Accelerate just above ground to best rate of climb speed, 79 KIAS.
Flaps .................................................. retract slowly

CLIMB

Best rate (flaps up) ........................................ 79 KIAS
Best angle (flaps up) ...................................... 63 KIAS
En route ................................................. 87 KIAS
Electric fuel pump ........................................ OFF at desired altitude

CRUISING

Normal max power ........................................ 75%
Power .................................................. set per power table
Mixture .................................................. adjust

DESCENT

NORMAL

Throttle .................................................. 2500 rpm
Airspeed .................................................. 126 KIAS
Mixture .................................................. rich
Carburetor heat ......................................... ON if required

POWER OFF

Carburetor heat ......................................... ON if required
Throttle .................................................. close
Airspeed .................................................. as required
Mixture .................................................. as required
Power .................................................. verify with throttle every 30 seconds
APPROACH AND LANDING

Fuel selector ........................................ proper tank
Seat backs ........................................ erect
Belts/harness ....................................... fasten/check
Electric fuel pump .................................. ON
Mixture ............................................. set
Flaps .................................................. set - 103 KIAS max
Air conditioner ..................................... OFF
Trim to 70 KIAS
Final approach speed (flaps 40°) .................. 63 KIAS

STOPPING ENGINE

Flaps .................................................. retract
Electric fuel pump .................................. OFF
Air conditioner ..................................... OFF
Radios ................................................ OFF
Throttle .............................................. full aft
Mixture .............................................. idle cut-off
Magneto ............................................. OFF
Master switch ....................................... OFF

PARKING

Parking brake ....................................... set
Control wheel ...................................... secure with belts
Flaps .................................................. full up
Wheel chocks ....................................... in place
Tie downs ........................................... secure
4.7 AMPLIFIED NORMAL PROCEDURES (GENERAL)

The following paragraphs are provided to supply detailed information and explanations of the normal procedures necessary for the safe operation of the airplane.

4.9 PREFLIGHT CHECK

PREPARATION

The airplane should be given a thorough preflight and walk-around check. The preflight should include a check of the airplane’s required papers, operational status, computation of weight and C.G. limits, takeoff and landing distances, and in-flight performance. A weather briefing should be obtained for the intended flight path, and any other factors relating to a safe flight should be checked before takeoff.

CAUTION

The flap position should be noted before boarding the airplane. The flaps must be placed in the UP position before they will lock and support weight on the step.

COCKPIT

Upon entering the cockpit, release the seat belts securing the control wheel, turn OFF all avionics equipment and set the parking brake. Insure that all electrical switches and the magneto switch are OFF and that the mixture is in idle cut-off. Turn ON the master switch, check the fuel quantity gauges for adequate supply and check that the annunciator panel illuminates. Turn OFF the master switch. Check the primary flight controls and flaps for proper operation and set the trim to neutral. Open the pitot and static drains to remove any moisture that has accumulated in the lines. Check the windows for cleanliness. Properly stow the tow bar and baggage and secure. Close and secure the baggage door.
RIGHT WING

Begin the walk-around at the trailing edge of the right wing by checking that the wing surface and control surfaces are clear of ice, frost, snow or other extraneous substances. Check the flap, aileron and hinges for damage and operational interference. Static wicks should be firmly attached and in good condition. Check the wing tip and lights for damage.

Open the fuel cap and visually check the fuel color and the quantity should match the indication that was on the fuel quantity gauge, replace cap securely. The fuel tank vent should be clear of obstructions.

Drain the fuel tank through the quick drain located at the lower inboard rear corner of the tank, making sure that enough fuel has been drained to insure that all water and sediment is removed. The fuel system should be drained daily prior to the first flight and after each refueling and checked for proper fuel.

CAUTION

When draining any amount of fuel, care should be taken to insure that no fire hazard exists before starting engine.

Remove the tie down and chock.

Next, a check of the landing gear. Check the gear strut for proper inflation; there should be 4.50 ± .25 inches of strut exposure under a normal static load. Check the tire for cuts, wear, and proper inflation. Make a visual check of the brake block and disc.

Check that the fresh air inlet is clear of foreign matter.

NOSE SECTION

Check the general condition of the nose section, look for oil or fluid leakage and that the cowling is secure. Check the windshield and clean if necessary. The propeller and spinner should be checked for detrimental nicks, cracks, or other defects. The air inlets should be clear of obstructions and check the alternator belt for proper tension. The landing light should be clean and intact.
Remove the chock and check the nose gear strut for proper inflation, there should be 3.25 ± .25 inches of strut exposure under a normal static load. Check the tire for cuts, wear, and proper inflation. Check the engine baffle seals. Check the oil level, make sure that the dipstick has been properly seated.

Open the fuel strainer located on the left side of the firewall long enough to remove any accumulation of water and sediment and check for proper fuel.

LEFT WING

The wing surface should be clear of ice, frost, snow, or other extraneous substances. Check that the fresh air inlet is clear of foreign matter and remove the chock. Check the main gear strut for proper inflation, there should be 4.50 ± .25 inches of strut exposure under a normal static load. Check the tire and the brake block and disc.

Open the fuel cap and visually check the fuel color. The quantity should match the indication on the fuel quantity gauge. Replace cap securely. The fuel tank vent should be clear of obstructions. Drain enough fuel to insure that all water and sediment has been removed and check for proper fuel.

Remove tie down and chock. Remove the cover from the pitot/static head on the underside of the wing. Make sure the holes are open and clear of obstructions. Check the wing tip and lights for damage. Check the aileron, flap, and hinges for damage and operational interference and that the static wicks are firmly attached and in good condition.

FUSELAGE

Check the condition and security of the antennas. The empennage should be clear of ice, frost, snow, or other extraneous substances, and the fresh air inlet on the side of fuselage should be clear of foreign matter. Check the stabilator and trim tab for damage and operational interference. The trim tab should move in the same direction as the stabilator. Remove the tie down.

Upon returning to the cockpit, an operational check of the interior lights, exterior lights, stall warning system, and pitot heat should now be made. Turn the master switch and the appropriate switches ON. Check the panel lighting and the overhead flood light. Visually confirm that exterior lights are operational. Lift the stall detector on the leading edge of the left
wing and determine that the warning horn is activated. With the pitot heat switch ON, the pitot head will be hot to the touch. After these checks are complete, the master switch and all electrical switches should be turned OFF.

Board the passengers and close and secure the cabin door. Fasten the seat belts and shoulder harnesses. Pull test the locking restraint feature of the shoulder harness inertia reel. Fasten seat belts on empty seats.

4.11 BEFORE STARTING ENGINE

Before starting the engine the brakes should be set ON and the carburetor heat lever moved to the full OFF position. The fuel selector should then be moved to the desired tank. Check to make sure that all the radios are OFF.

4.13 STARTING ENGINE

(a) Starting Engine When Cold

Open the throttle lever approximately 1/4 turn. Turn ON the master switch and the electric fuel pump.

Move the mixture control to full RICH and engage the starter by rotating the magneto switch clockwise. When the engine fires, release the magneto switch, and move the throttle to the desired setting.

If the engine does not fire within five to ten seconds, disengage the starter, prime the engine and repeat the starting procedure.
(b) Starting Engine When Hot

Open the throttle approximately 1/2 inch. Turn ON the master switch and the electric fuel pump. Move the mixture control lever to full RICH and engage the starter by rotating the magneto switch clockwise. When the engine fires, release the magneto switch and move the throttle to the desired setting.

(c) Starting Engine When Flooded

The throttle lever should be full OPEN. Turn ON the master switch and turn OFF the electric fuel pump. Move the mixture control lever to idle cut-off and engage the starter by rotating the magneto switch clockwise. When the engine fires, release the magneto switch, advance the mixture and retard the throttle.

(d) Starting Engine With External Power Source

An optional feature called the Piper External Power (PEP) allows the operator to use an external battery to crank the engine without having to gain access to the airplane's battery.

Turn the master switch OFF and turn all electrical equipment OFF. Connect the RED lead of the PEP kit jumper cable to the POSITIVE (+) terminal of an external 12-volt battery and the BLACK lead to the NEGATIVE (-) terminal. Insert the plug of the jumper cable into the socket located on the fuselage. Note that when the plug is inserted, the electrical system is ON. Proceed with the normal starting technique.

After the engine has started, reduce power to the lowest possible RPM, to reduce sparking, and disconnect the jumper cable from the aircraft. Turn the master switch ON and check the alternator ammeter for an indication of output. DO NOT ATTEMPT FLIGHT IF THERE IS NO INDICATION OF ALTERNATOR OUTPUT.
NOTE

For all normal operations using the PEP jumper cables, the master switch should be OFF, but it is possible to use the ship's battery in parallel by turning the master switch ON. This will give longer cranking capabilities, but will not increase the amperage.

CAUTION

Care should be exercised, because, if the ship's battery has been depleted, the external power supply can be reduced to the level of the ship's battery. This can be tested by turning the master switch ON momentarily while the starter is engaged. If cranking speed increases, the ship's battery is at a higher level than the external power supply.

When the engine is firing evenly, advance the throttle to 800 RPM. If oil pressure is not indicated within thirty seconds, stop the engine and determine the trouble. In cold weather it will take a few seconds longer to get an oil pressure indication. If the engine has failed to start, refer to the Lycoming Operating Handbook, Engine Troubles and Their Remedies.

Starter manufacturers recommend that cranking periods be limited to thirty seconds with a two minute rest between cranking periods. Longer cranking periods will shorten the life of the starter.

4.15 WARM-UP

Warm-up the engine at 800 to 1200 RPM for not more than two minutes in warm weather and four minutes in cold. Avoid prolonged idling at low RPM, as this practice may result in fouled spark plugs.

Takeoff may be made as soon as the ground check is completed, provided that the throttle may be opened fully without backfiring or skipping, and without a reduction in engine oil pressure.
Do not operate the engine at high RPM when running up or taxiing over ground containing loose stones, gravel or any loose material that may cause damage to the propeller blades.

4.17 TAXIING

Before attempting to taxi the airplane, ground personnel should be instructed and approved by a qualified person authorized by the owner. Ascertain that the propeller back blast and taxi areas are clear.

Power should be applied slowly to start the taxi roll. Taxi a few feet forward and apply the brakes to determine their effectiveness. While taxiing, make slight turns to ascertain the effectiveness of the steering.

Observe wing clearances when taxiing near buildings or other stationary objects. If possible, station an observer outside the airplane.

Avoid holes and ruts when taxiing over uneven ground.

Do not operate the engine at high RPM when running up or taxiing over ground containing loose stones, gravel or any loose material that may cause damage to the propeller blades.

4.19 GROUND CHECK

The magnetos should be checked at 2000 RPM. Drop off on either magneto should not exceed 175 RPM and the difference between the magnetos should not exceed 50 RPM. Operation on one magneto should not exceed 10 seconds.

Check the vacuum gauge; the indicator should read 4.8" - 5.1" Hg at 2000 RPM.

Check the annunciator panel lights with the press-to-test button. Also check the air conditioner.

Carburetor heat should also be checked prior to takeoff to be sure the control is operating properly and to clean any ice which may have formed during taxiing. Avoid prolonged ground operation with carburetor heat ON as the air is unfiltered.