

WARRIOR III – PA28-161 – NORMAL PROCEDURES
BEFORE ENGINE START THROUGH ENGINE SHUTDOWN – CHECKLIST WILL BE VERBALIZED

BEFORE ENGINE START

TACH TIME CHECK TIME REMAINING
 HOBBS TIME RECORD
 PARKING BRAKE SET
 PASSENGER BRIEF COMPLETE
 SEATBELTS AND HARNESSSES FASTEN AND SECURE
 CABIN DOOR CLOSE AND SECURE

ENGINE START

CIRCUIT BREAKERS IN
 AVIONICS MASTER OFF
 FUEL SELECTOR CYCLE
 MASTER ON
 ALTERNATOR ON
 FUEL PUMP ON
 FUEL PRESSURE CHECK PRESSURE
 ANTI-COLLISION LIGHTS ON
 THROTTLE OPEN ¼ INCH
 MIXTURE RICH
 PRIME AS REQUIRED
 AREA CLEAR
 STARTER ENGAGE
 OIL PRESSURE CHECK
 FUEL PRESSURE CHECK
 THROTTLE 1000 RPM

PRE-TAXI

AVIONICS ON, TEST
 AWOS/ATIS CHECK
 ALTIMETER/DG SET
 TRANSPONDER 1200 & ALT
 FUEL SELECTOR FULLEST TANK
 BRAKES TEST

ENGINE RUN-UP

PARKING BRAKE SET
 FLIGHT CONTROLS FREE & CORRECT
 TRIM NEUTRAL
 THROTTLE 2000 RPM
 ENGINE INSTRUMENTS CHECK
 VACUUM GAUGE 4.8 - 5.2 / HG
 MAGNETOS CHECK L & R
 (MAX DROP 175 & MAX DIFF 50 RPM)
 CARB HEAT CHECK
 FUEL PUMP OFF
 FUEL PRESSURE CHECK
 MIXTURE AS REQUIRED
 THROTTLE 1000 RPM
 ALTERNATOR CHECK AMPS
 PITOT HEAT CHECK
 AUX VACUUM PUMP ON, CHECK GAUGE 4.8 - 5.2 / HG
 AUX VACUUM PUMP OFF
 ANNUNCIATOR PANEL TEST
 FLIGHT INSTRUMENTS CHECK & SET
 CABIN DOOR LATCHED

BEFORE TAKE-OFF

TYPE OF TAKEOFF DETERMINE
 FLAPS AS REQUIRED
 AIRSPEEDS: ROTATION, CLIMB OUT,
 AND BEST GLIDE CALCULATE (GUST SPREAD)
 PRE-TAKEOFF BRIEFING COMPLETE

FUEL PUMP ON
 ANTI-COLLISION LIGHTS ON
 LANDING LIGHT ON
 MIXTURE RICH
 CABIN DOOR LATCHED
 TAKE-OFF TIME RECORD
 ** RESET HEADING INDICATOR AFTER TAXIING ONTO RUNWAY**

CLIMB (BETWEEN 500 AND 1500 AGL)

POWER SET
 TRIM SET
 FUEL PUMP OFF
 FUEL PRESSURE CHECK
 LANDING LIGHT OFF
 HEADING INDICATOR SET

CRUISE (AT TOP OF CLIMB FOR X/C AND LCL FLIGHTS)

POWER SET
 TRIM SET
 HEADING INDICATOR SET
 MIXTURE AS REQUIRED
 TRUE AIR SPEED (X/C FLTS) VERIFY

IN-RANGE (X/C – BEFORE TOP OF DESCENT; LCL – BEFORE TURNING TO DOWNWIND)

AWOS/ATIS CHECK
 ALTIMETER SET
 MIXTURE RICH
 FUEL PUMP ON
 FUEL PRESSURE CHECK
 FUEL SELECTOR FULLEST TANK
 LANDING LIGHT ON
 SEATBELTS FASTEN AND SECURE

BEFORE LANDING (BEFORE PATTERN ENTRY AND BEFORE MIDFIELD DOWNWIND EACH SUBSEQUENT APPROACH)

TYPE LANDING DETERMINE
 APPROACH SPEED ON FINAL CALCULATE (GUST SPREAD)
 FLAP SETTING ON FINAL DETERMINE

AFTER LANDING (AFTER CLEARING RUNWAY)

FLAPS UP
 FUEL PUMP OFF
 LANDING LIGHT AS REQUIRED
 TRANSPONDER 1200 & ALT

ENGINE SHUTDOWN

THROTTLE AFT
 AVIONICS MASTER OFF
 ELECTRICAL SWITCHES OFF
 NAV, PANEL & OVERHEAD LIGHTS OFF
 MIXTURE IDLE CUT OFF
 MASTER OFF
 MAGNETOS OFF
 VENT WINDOW CLOSED
 HOBBS TIME RECORD

POST-FLIGHT

CABIN DOOR SECURED
 AIRCRAFT TIE DOWN OR CHOCK
 WALK AROUND AIRCRAFT NOTE GENERAL CONDITION

WARRIOR III – PA28-161 – EMERGENCY PROCEDURES

ENGINE FIRE DURING START

STARTER.....CONTINUE TO CRANK
MIXTURE.....IDLE/CUT OFF
THROTTLE.....OPEN
FUEL PUMP.....OFF
FUEL SELECTOR.....OFF

IF FIRE CONTINUES

EVACUATE AIRCRAFT
USE FIRE EXTINGUISHER IF AVAILABLE

ELECTRICAL FIRE

MASTER.....OFF
ALTERNATOR.....OFF
CABIN VENTS AND WINDOWS.....OPEN
CABIN HEAT.....OFF
DEFROSTER.....OFF

ENGINE ROUGHNESS

CARB HEAT.....ON
MIXTURE.....ADJUST
FUEL PUMP.....ON
FUEL SELECTOR.....SWITCH TANKS
ENGINE GUAGES.....CHECK
MAGNETOS.....CYCLE
*LAND ASAP

ENGINE FIRE IN FLIGHT

FUEL SELECTOR.....OFF
THROTTLE.....CLOSED
MIXTURE.....OFF
FUEL PUMP.....OFF
CABIN HEAT.....OFF
DEFROSTER.....OFF
VENTS.....OPEN
ENGINE.....SECURE

RADIO FAILURE

AUDIO PANEL.....CHECK AUTO ON "PHONES"
MIC JACK.....CHECK
VOLUME.....TEST
CIRCUIT BREAKERS.....IN
FREQUENCY.....CHECK
TRANSPONDER.....7600

*FOLLOW LOST COMM PROCEDURES

LOSS OF FUEL PRESSURE

ELECTRIC FUEL PUMP.....ON
FUEL SELECTOR.....SWITCH

ENGINE FAILURE/PARTIAL POWER LOSS

PITCH (BEST GLIDE).....73 KTS
TRIM.....73 KTS
FIELD.....SELECT SUITABLE
FUEL SELECTOR.....SWITCH TANKS
MAGNETOS.....CYCLE
THROTTLE.....ADJUST
MIXTURE.....RICH
CARB HEAT.....ON

FUEL PUMP.....ON

IF POWER RESTORED

CARB HEAT.....OFF
FUEL PUMP.....OFF

IF POWER NOT RESTORED

TRANSPONDER.....7700
RADIO.....121.5

ENGINE SECURE IN FLIGHT

FUEL SELECTOR.....OFF
MAGNETOS.....OFF
THROTTLE.....CLOSED
MIXTURE.....OFF
CARB HEAT.....OFF
SEAT BELTS.....ON
DOOR.....UNLATCH
ELT.....ON
MASTER/BATTERY.....OFF
ALTERNATOR SWITCH.....OFF

*PREPARE FOR EMERGENCY LANDING (69 KNOTS SHORT FINAL)

OPEN DOOR

SLOW AIRPLANE TO 89 KTS
CABIN VENTS.....CLOSE
STORM WINDOW.....OPEN
IF UPPER LATCH IS OPEN.....LATCH

IF SIDE LATCH IS OPEN

PULL ARM REST MOVE LATCH HANDLE

IF BOTH LATCHES OPEN

LATCH SIDE LATCH THEN TOP

ELECTRICAL OVERLOAD

(Alternator over 20 amps above known electrical load)

ALT SWITCH.....ON
BATTERY MASTER SWITCH.....OFF

IF ALTERNATOR LOADS ARE REDUCED

ELECTRICAL LOAD.....REDUCE TO MINIMUM
LAND AS SOON AS PRACTICAL

NOTE: DUE TO INCREASED SYSTEM VOLTAGE AND RADIO FREQUENCY NOISE, OPERATION WITH ALT SWITCH ON AND BATT SWITCH OFF SHOULD BE MADE ONLY WHEN REQUIRED BY AN ELECTRICAL SYSTEM FAILURE.

IF ALTERNATOR LOADS ARE NOT REDUCED

ALT SWITCH.....OFF
BATT SWITCH.....AS REQUIRED
LAND AS SOON AS POSSIBLE
ANTICIPATE COMPLETE ELECTRICAL FAILURE