

## PA-28-161 WARRIOR III: NORMAL CHECKLIST

### BEFORE START

PREFLIGHT INSPECTION -COMPLETE  
AIRWORTHINESS REQUIREMENTS -MET  
HOBBS TIME -RECORDED  
CHOCKS / TIEDOWNS / PROPELLER LOCK / PITOT COVER -REMOVED  
SAFETY BELTS -FASTENED  
SEATS -LOCKED  
PASSENGER SAFETY BRIEFING -REVIEWED (Safety Belt Use, Door Use, Emergencies)  
ALL ELECTRICAL EQUIPMENT -OFF  
CIRCUIT BREAKERS -IN  
PANEL LIGHT SELECTOR -"DAY" OR "NIGHT" AS NECESSARY  
ELT -ARMED  
ALTERNATE STATIC SOURCE -OFF

### ENGINE START

PARKING BRAKE -ON  
FUEL SELECTOR -ON FULLER TANK  
CARBURETOR HEAT -OFF  
MIXTURE -FULL RICH  
THROTTLE -OPEN 1/4 INCH (1/2 INCH IF ENGINE IS HOT)  
KEY -IN IGNITION  
MASTER SWITCH -ON  
ALTERNATOR SWITCH -ON  
FIN STROBE LIGHT -ON  
FUEL PUMP -ON & CHECK FUEL PRESSURE  
PRIME -AS REQUIRED (3 TO 5 SECONDS) (NONE IF ENGINE IS HOT)  
AREA -CLEAR  
STARTER -ENGAGE  
ENGINE -1000 RPM  
MIXTURE -LEANED FOR TAXI  
FUEL PUMP -OFF & CHECK FUEL PRESSURE  
OIL PRESSURE -IN NORMAL RANGE  
AMMETER -VERIFY ELECTRICAL LOAD  
AUXILIARY VACUUM -CHECK, THEN OFF  
SUCTION -CHECK  
EXTERIOR & INTERIOR LIGHTS -AS REQUIRED  
RADIO MASTER SWITCH -ON  
TRANSPONDER CODE -SET TO 1200

### TAXI

FLIGHT INSTRUMENTS -VERIFY PROPER OPERATION

### RUNUP

PARKING BRAKE -ON AND BRAKES HELD  
FLIGHT CONTROLS -VERIFY FULL TRAVEL & CORRECT DEFLECTIONS  
MIXTURE -FULL RICH  
ENGINE -2000 RPM (Verify No Aircraft Movement)  
1. MAGNETO CHECK: MAXIMUM DROP: 175 RPM ; MAXIMUM DIFFERENTIAL: 50 RPM  
2. CARBURETOR HEAT -CHECK, THEN OFF  
3. ALTERNATOR -CHECK  
4. SUCTION - 4.5 TO 5.1 INCHES HG  
5. ENGINE GAUGES -IN NORMAL RANGE  
ENGINE -IDLE CHECK, THEN 1000 RPM  
FLIGHT INSTRUMENTS -CHECKED AND SET  
CLOCK / WATCH -SET  
NAVIGATION EQUIPMENT -ON AS REQUIRED AND SET  
TRANSPONDER CODE -SET  
ANNUNCIATOR PANEL -TEST  
CARBURETOR ICE DETECTION -ON AND SET  
ELECTRIC PITCH TRIM -ON AND TEST  
STABILATOR & RUDDER TRIM -EXERCISE, THEN SET FOR TAKEOFF  
FLAPS -CYCLE, THEN SET AS REQUIRED  
DOOR & WINDOW -CLOSED AND LATCHED  
TAKEOFF BRIEFING -REVIEWED (Airspeeds, Takeoff Distance, Departure Procedure, Emergencies)  
OIL TEMPERATURE -IN NORMAL RANGE BEFORE TAKEOFF  
RADIO -ON PROPER FREQUENCY

▶▶▶ TURN OVER FOR TAKEOFF ▶▶▶ TURN OVER FOR TAKEOFF ▶▶▶

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### TAKEOFF

FUEL PUMP -ON  
STROBE LIGHTS -ON  
LANDING LIGHT -ON  
RECOGNITION LIGHTS -ON  
TIME -COPY DOWN  
HEADING INDICATOR -SET TO RUNWAY HEADING

### CRUISE

POWER -SET  
MIXTURE -LEANED (BEST POWER OR BEST ECONOMY)  
FUEL PUMP -OFF & CHECK FUEL PRESSURE  
LANDING LIGHT & RECOGNITION LIGHTS -OFF  
HEADING INDICATOR -ADJUST  
ATTITUDE INDICATOR -ADJUST  
FUEL -BALANCE TANKS (Fuel Pump **ON** When Switching Tanks)

### BEFORE LANDING

ALTIMETER -SET  
FUEL PUMP -ON  
FUEL SELECTOR -ON FULLER TANK  
MAGNETOS -ON "BOTH"  
LANDING LIGHT -ON  
RECOGNITION LIGHTS -ON  
MIXTURE -FULL RICH  
CARBURETOR HEAT -CHECK, THEN OFF  
SAFETY BELTS -FASTENED

### AFTER LANDING

RADIO -ON PROPER FREQUENCY  
FUEL PUMP -OFF & CHECK FUEL PRESSURE  
MIXTURE -LEANED FOR TAXI  
TRANSPONDER -SET TO 1200  
LANDING LIGHT -OFF (Daytime)  
RECOGNITION LIGHTS -OFF  
FLAPS -0°

### SHUT DOWN

PARKING BRAKE -ON  
RADIO MASTER SWITCH -OFF  
CARBURETOR ICE DETECTION -OFF  
ENGINE -1000 RPM  
MIXTURE -IDLE CUT-OFF  
IGNITION -OFF AND KEY REMOVED  
EXTERIOR & INTERIOR LIGHTS -OFF  
ALTERNATOR SWITCH -OFF  
MASTER SWITCH -OFF

### PARKING & SECURING

FLIGHT CONTROLS -SECURE  
CHOCKS -IN PLACE  
TIEDOWNS -SECURE  
PITOT COVER -ON  
PROPELLER LOCK -SECURE

### COMMUNICATIONS (KBVY)

TOWER PHONE: 978-922-0657	ATIS / ASOS: 119.2
BFC PHONE: 978-774-7755	GROUND: 121.6
ASOS PHONE: 978-921-5042	TOWER / CTAF: 125.2
BFC / NORTH ATLANTIC AIR: 123.3	AIR-TO-AIR: 122.75
FLIGHT WATCH: 122.0	FLIGHT SERVICE: 122.2

### AIRSPEEDS

V<sub>R</sub> - 55 KIAS  
(52 KIAS 25° FLAPS)  
V<sub>X</sub> BEST ANGLE - 63 KIAS  
(57 KIAS 25° FLAPS)  
V<sub>Y</sub> BEST RATE - 79 KIAS  
ENROUTE CLIMB - 87 KIAS

V<sub>A</sub> - 111 KIAS @ 2440 LBS. GROSS  
88 KIAS @ 1531 LBS. GROSS  
BEST GLIDE - 73 KIAS  
CLOSE DOOR - 89 KIAS OR BELOW  
APPROACH @ 40° FLAPS - 63 KIAS  
MAXIMUM CROSSWIND - 17 KIAS