


**PA 28-161 PREFLIGHT INSPECTION****PREFLIGHT AREA 1 - CABIN CHECK**

IGNITION KEY  ON GLARESHIELD  
 DOCUMENTS (AROW) CHECK  
 HOBBS & TAC METER CHECK TIME  
 CONTROL LOCK REMOVE  
 PITOT & STATIC DRAINS DRAIN  
 ALTERNATE STATIC SELECTOR NORMAL  
 ELECTRICAL EMERGENCY SHUTOFF NORMAL

FLAPS EXTEND  
 ELECTRICAL & AVIONICS OFF  
 MASTER SWITCHES ON  
 FUEL GUAGES CHECK  
 ANNUNCIATOR PANEL CHECK  
 EXTERIOR LIGHTS & STALL WARNING CHECK  
 MASTER SWITCHES OFF  
 PARKING BRAKES ON  
 BAGGAGE COMPARTMENT DOOR: INSPECT/SECURE

**PREFLIGHT AREA 2 - RIGHT WING**

RIGHT FLAP & AILERON CHECK  
 WING TIP CHECK  
 FUEL QUANTITY (RIGHT WING) CHECK VISUALLY  
 WING TIE DOWN REMOVE  
 FUEL SUMP SAMPLE  
 MAIN WHEEL TIRES/BRAKES CHECK  
 CHOCKS REMOVE  
 FUEL VENT CLEAR

**PREFLIGHT AREA 3 - FORWARD FUSELAGE**

ENGINE OIL LEVEL CHECK (Min. 6 Qts)  
 RIGHT COWLING SECURE  
 PROPELLER & SPINNER CHECK  
 ALTERNATOR BELT CHECK  
 LANDING LIGHT CHECK CONDITION  
 AIR INTAKES / EXHAUST CHECK  
 NOSE WHEEL TIRE & STRUT CHECK  
 NOSE CHOCKS REMOVE  
 LEFT COWLING SECURE  
 ENGINE FUEL STRAINER SAMPLE

**PREFLIGHT AREA 4 - LEFT WING**

FUEL TANK VENT CLEAR  
 CHOCKS REMOVE  
 MAIN TIRE WHEEL / BRAKES CHECK  
 FUEL SUMP SAMPLE  
 WING TIE DOWN REMOVE  
 STALL WARNING HORN CHECK  
 PITOT STATIC HEAD CHECK  
 FUEL QUANTITY (LEFT WING) CHECK VISUALLY  
 WING TIP CHECK  
 LEFT AILERON & FLAP CHECK

**PREFLIGHT AREA 5 - AFT FUSELAGE/EMPENNAGE**

FUSELAGE LEFT SIDE CHECK  
 STABILATOR & RUDDER & TRIM CHECK  
 TAIL TIE DOWN REMOVE  
 FUSELAGE RIGHT SIDE CHECK

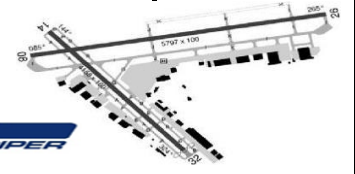
**OVERALL AIRCRAFT INTEGRITY - ASSESS****PIPER WARRIOR PA 28 - 161****NORMAL PROCEDURES**

ATIS 120.17 KFTY  
 ATL App 121.0 Fulton County Executive Airport



Ground 121.7  
 Tower 118.45

Rwy 26: 265° - 814'  
 Rwy 08: 085° - 800'  
 Rwy 14: 144° - 799'  
 Rwy 32: 314° - 841'

**BEFORE ENGINE START****Final Walk-Around****ACCOMPLISH**

Tie Downs, Chocks, Covers, Leaks, Security of Doors and Latches

PREFLIGHT & AROW CHECK COMPLETE  
 FLAPS / TRIM UP / TAKEOFF POSITION  
 HOBBS/ TACH TIME RECORD  
 SEAT / SEAT TRACK / SEAT BELT LOCKED  
 CREW & PASSENGER BRIEF COMPLETE  
**"SAFETY PLUS" CHECK - SEE SUPPLEMENTAL CHECKLIST**  
 ELT ARMED  
 BRAKES PEDAL TEST & SET  
 FUEL SELECTOR SELECT ≤ TANK  
 STABILATOR & RUDDER TRIM TAKEOFF POSITION  
 CIRCUIT BREAKERS CHECK  
 RADIO (AVIONICS) MASTER SWITCH OFF  
 CARBURETOR HEAT OFF / AS REQUIRED  
 MIXTURE RICH  
 THROTTLE POSITION FOR ENGINE START  
 PRIME AS REQUIRED  
 BEACON-ANTI COLLISION LIGHT ON  
 PROP AREA **"CLEAR PROP"** CLEAR  
 MASTER BOTH ON  
 ELECTRIC FUEL PUMP ON - PRESSURE CHECK

**ENGINE START**

&lt;&lt; If no oil pressure within 10 seconds abort start &gt;&gt;

MAGNETO / IGNITION SWITCH START  
 ENGINE GUAGES CHECK  
 THROTTLE (800-1000 RPM) NORMAL IDLE RPM

**BEFORE TAXI**

RADIO (AVIONICS) MASTER SWITCH ON  
 GPS SYSTEM DATABASE CHECK & TEST  
 Heading, CDI, OBS, Airspeed  
 ELECTRIC FUEL PUMP OFF - PRESS CHECK  
 MIXTURE LEAN AS NEEDED  
 AIR CONDITIONING / FAN AS DESIRED  
 COMM SYSTEM 1 & 2 TUNE  
 ATIS / AWOS / CLEARANCE VERIFY

Request Taxi Clearance if at Tower Controlled Airport

If non-tower airport announce intentions on CTAF

**TAXI**

BRAKES CHECK  
 STEERING CHECK  
 HEADING IND / MAGNETIC COMPASS CHECK  
 TURN & SLIP COORDINATOR CHECK

**BEFORE TAKEOFF**

TOWER / CTAF FREQUENCY	MONITOR
BRAKES/PARKING BRAKES	CHECK & SET
FLIGHT CONTROLS	FREE & CORRECT
ELEC FUEL PUMP	VERIFY OFF- PRESSURE CHECK
FUEL SELECTOR	SELECT OTHER TANK
MIXTURE	RICH / SET TO BEST POWER
FLIGHT INSTRUMENTS	CHECK & SET

THROTTLE	2000 RPM
ENGINE INSTRUMENTS	CHECK
AMMETER	CHECK
ANNUNCIATOR PANEL	CHECK
L & R MAGNETO	DIFFERENTIAL CHECK

( 2000 RPM: max drop ≤ 125 RPM / max diff ≤ 50 RPM )

CARBURETOR HEAT	(CHECK FOR SLIGHT DROP)	ON
THROTTLE	FULLY RETARDED	
CARBURETOR HEAT	OFF	
THROTTLE	(800-1000 RPM)	NORMAL IDLE
RADIOS & NAV EQUIPMENT	REVIEW-SET	

STABILATOR & RUDDER TRIM	TAKEOFF POSITION
FLAPS	VISUALLY CHECK UP/AS REQUIRED

• **Takeoff / Departure Briefing** **REVIEW**

C- Conditions

H - Hazards

O - Operational Changes Required

R - Runway Required and Available

R - Return Procedure / Low Altitude Emergencies

D - Departure Route

IFR

C- Clearance Limit

R - Route

A - Altitudes

F - Frequencies

T - Transponder Setting

Runway, First Fix/Direction, Heading, Altitude, Airspeeds

• **Takeoff Data** (2330 rpm min - Std Day) **REVIEW-SET**

**Vs: 50 IAS Vr: 55 IAS Vx: 63 IAS Vy: 79 IAS Vg: 73 IAS**

**WHEN FULLY READY: BEFORE TAKEOFF - FINAL ITEMS**

**BEFORE TAKEOFF - FINAL ITEMS**

TRANSPONDER	POWERED - SQUAWK SET
BRAKES	RELEASE
STROBES / LANDING LIGHT	AS REQUIRED
ELECTRIC FUEL PUMP	ON
DOORS & WINDOWS	CLOSED
FLAPS	AS REQUIRED
MIXTURE	RICH (< 3000 FT)

**TAKEOFF**

"HATES" ✓: Heading Ind, Attitude Ind, Time, Engine Instruments, Speeds

HEADING INDICATOR	RWY HEADING
ATTITUDE INDICATOR	CHECK
ENGINE & FLIGHT INSTRUMENTS	CHECK

**CLIMB**

CLIMB AIRSPEEDS	Vy = <b>79</b> / CRUISE CLB = <b>83</b>
THROTTLE	ADJUST TO ≤ 2600 RPM
ELECTRIC FUEL PUMP	OFF AT DESIRED ALT
MIXTURE	ADJUST AS REQUIRED

**CRUISE**

CRUISE RPM / AIRSPEED	ESTABLISH
ELECTRIC FUEL PUMP	VERIFY OFF
MIXTURE	ADJUST AS REQUIRED
FUEL TANK SELECTOR	CHANGE ON SCHEDULE
AIR CONDITIONING / FAN	AS DESIRED

**DESCENT**

SEAT / SEAT TRACK / SEAT BELT	ADJUST
FUEL SELECTOR	FULLEST TANK
ELECTRIC FUEL PUMP	ON
MIXTURE	RICH
CARBURETOR HEAT	OFF / AS REQUIRED
ENGINE GUAGES	CHECK
HEADING INDICATOR	ALIGNED
ALTIMETER SETTING	CHECK
RADIOS	SET
FLAPS ( Vfe 103 )	10 / 25 (AS REQUIRED)
Pattern Speed Target:	<b>100-90 / 90-80 / 80-70</b>

**Short Final / Landing Assured**

FLAPS **EXTENDED: 65-70 IAS**

**Vg = 73 IAS Vs = 50 IAS Vso = 44 IAS**

**AFTER LANDING CHECK**

FLAPS	RETRACT
CARBURETOR HEAT	OFF / AS REQUIRED
STABILATOR & RUDDER TRIM	TAKEOFF POSITION
LIGHTS	AS REQUIRED
ELECTRIC FUEL PUMP	OFF
MIXTURE	LEANED

**ENGINE SHUTDOWN**

AIR CONDITIONER / FAN SWITCH	OFF
CARBURETOR HEAT	OFF
THROTTLE	IDLE / FULL AFT
MIXTURE	LEAN / IDLE-CUTOFF
MAGNETOS / IGNITION SWITCH	OFF
MASTER	OFF
AVIONICS MASTER SWITCH	OFF
IGNITION KEY	REMOVE
ELECTRONIC FLIGHT DISPLAYS	VERIFY OFF

**COMPLETE PARKING AND SECURING OF AIRCRAFT**

Time: **RECORD**, Flight Controls: **SECURE**, Wheels: **CHOCKED**  
 Parking Brake: **OFF**, Tie Downs: **SECURE**, Fuel: **ORDER**