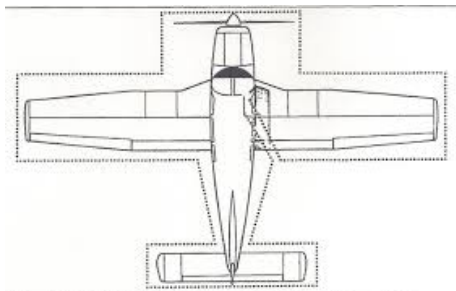


N31082 Piper Warrior 161 - Checklist

PREFLIGHT



WEATHER.....CHECK
EQUIPMENT REQUIREDCHECK
WEIGHT & BALANCECHECK
PERFORMANCE FIGURES.....CHECK
AIRCRAFT CLIPBOARD & KEYSCHECK

COCKPIT

REQUIRED DOCUMENTS.....AVAILABLE
HOBBS/TACH RECORD
MASTER ON
FUEL QUANTITY GAUGES CHECK
ANTI-COLLISION LIGHTCHECK
STROBESCHECK
LANDING LIGHTSCHECK
NAV LIGHTS.....CHECK (NIGHT OPS)
MASTER SWITCH OFF
FLAPS DOWN

RIGHT WING

FLAP SECURE & UNDAMAGED
AILERON FREE & CORRECT
WING TIP & LIGHT UNDAMAGED
FUEL DRAIN SAMPLE
FUEL QUANTITY CHECK
FUEL CAP.....SECURE
FUEL VENTCLEAR

N31082 Piper Warrior 161 - Checklist

LANDING GEAR/TIREUNDAMAGED
BRAKESCHECK
AIR INLETCLEAR

NOSE

WINDSHIELD CLEAN & UNDAMAGED
ENGINE OIL LEVEL 6 TO 8 QTS
ENGINE OIL DIPSTICK SECURED
PROPELLER & SPINNER.....CHECK
COWLINGCHECK
LANDING LIGHTS.....CHECK
NOSE GEAR & TIRECHECK
TOW BAR REMOVED & STOWED
CHOCKS REMOVED
ALTERNATOR BELT TENSION
FUEL SUMP DRAIN SAMPLE

LEFT WING

AIR INLET CLEAR
FUEL DRAIN SAMPLE
FUEL QUANTITY CHECK
FUEL CAP SECURE
FUEL VENTCLEAR
LANDING GEAR & TUBECHECK
PITOT COVER.....REMOVED
PITOT MAST UNDAMAGED
STALL WARNING INDICATORCHECK
WING TIP & LIGHT UNDAMAGED
AILERON FREE
FLAP SECURE & UNDAMAGED

EMPENNAGE

STABILATOR & TRIM.....CHECK
RUDDERCHECK
VERTICAL STABILIZER.....CHECK
ANTENNASCHECK

N31082 Piper Warrior 161 - Checklist

FUSELAGE

BAGGAGE DOOR CLOSED & SECURE
PREFLIGHT INSPECTION COMPLETE

N31082 Piper Warrior 161 - Checklist

BEFORE STARTING ENGINE

PASSENGER BRIEFINGCOMPLETE
FLAPS RETRACTED
SEATS, BELTS.....ADJUSTED, LOCKED
DOOR LATCHED
RADIO MASTER OFF
FUEL SELECTOR LOWEST TANK
CIRCUIT BREAKERS CHECK
CONTROLS FREE & CORRECT

ENGINE START

PARKING BRAKE SET
MIXTUREFULL RICH
CARBURETOR HEAT OFF
MASTER SWITCHON
ANTI-COLLISION LIGHTSON
FUEL PUMP ON
FUEL PRESSURE CHECK
PRIME AS REQUIRED
THROTTLE CRACKED
PROPELLER AREA.....CLEAR
TOE BRAKES.....APPLY
STARTER ENGAGE
OIL PRESSURE (30/WARM & 60/COLD) CHECK
ENGINE < 1000 RPM
FUEL PUMPOFF
RADIO MASTER ON
NAV LIGHTS.....ON (FOR ADS-B)
GARMIN 355 GPSVERIFY DATABASE
GARMIN G5 (AI/HSI).....ALIGNING
TRANSPONDER ALT & 1200

N31082 Piper Warrior 161 - Checklist

TAXI

DO NOT RIDE THE BRAKES

GBR UNICOM 122.8.....RADIO CHECK
ALTIMETERSET
G5s.....SET
FLIGHT INSTRUMENTS.....CHECK
LIGHTSAS REQUIRED
AIRPORT DIAGRAM.....AVAILABLE
TAXI AREA CLEAR.....CLEAR
STERILE COCKPITNO NON-ESSENTIAL CONVERSATION
BRAKESTEST

RUN UP

AIRCRAFT POSITION.....INTO THE WIND
PARKING BRAKESET
FUEL SELECTOR FULLEST TANK
MIXTURE FULL RICH
THROTTLE2000 RPM
MAGNETOS (175 RPM MAX DROP, 50 RPM DIFF.) CHECK
CARBURETOR HEATCHECK
ENGINE INSTRUMENTS IN GREEN
FUEL PRESSURECHECK
AMMETER.....CHECK
ANNUNCIATOR TEST
THROTTLE IDLE
CARBURETOR HEATCHECK
THROTTLE < 1000 RPM
PRIMERLOCKED
FLIGHT INSTRUMENTS.....CHECK
FLIGHT CONTROLS FREE & CORRECT
THROTTLE FRICTION LOCK ADJUSTED
TRANSPONDER ON-ALT

N31082 Piper Warrior 161 - Checklist

BEFORE TAKEOFF

DOORCLOSED & LOCKED
WINDOWSECURE
SEATLOCKED IN PLACE
SEAT BELTSFASTENED
FLAPSSET
TRIM TAB SET TO NEUTRAL
LANDING LIGHTSON
STROBESOFF
FUEL PUMPON
MIXTURE CONFIRM FULL RICH
COURSESET
TIME OFFNOTED
DEPARTURE BRIEFINGBRIEFED

N31082 Piper Warrior 161 - Checklist

DEPARTURE BRIEFING

- Wind Direction & Speed
- Runway Abort Point
- Climb Speed
- Best Glide Speed
- Known Obstructions & Terrain
- Decision Height/Altitude
- Landing Options
- Airplane Configured (W.H.A.T. - I.F.)

Risk Profile	Low	1.TAKE OFF ROLL Power To Idle Maintain Directional Control Stop
	Moderate	2.RUNWAY REMAINING Pitch Down Power To Idle Land Straight Ahead
	High	3.INITIAL CLIMB Pitch Down Establish Best Glide Land Within a Widening Pie Slice Land Into Wind
	Moderate	4.DEPARTURE CLIMB Pitch Down Establish Best Glide Select Best Landing Spot Land Into Wind Systems Off Crack Open Doors

N31082 Piper Warrior 161 - Checklist

NORMAL TAKEOFF

FLAPSUP
ROTATE 45-55 KTS
CLIMB SPEED (V_Y).....79 KTS

SHORT-FIELD TAKEOFF

FLAPS25°
POSITIONALL AVAILABLE RUNWAY
BRAKES.....HOLD
THROTTLE FULL OPEN
ENGINE.....MAX STATIC POWER
BRAKES.....RELEASE
ROTATE 52 KTS
INITIAL CLIMB SPEED (V_X)63 KTS
FLAPSUP - CLEAR 50' OBSTACLE
CLIMB SPEED (V_Y).....79 KTS

CLIMB

THROTTLEFULL
FLAPSRETRACT CLEAR OBSTACLES
CRUISE CLIMB.....87 KTS

CRUISE

PITCHSET
THROTTLE 2200-2500 RPM
TRIM SET
FUEL SELECTORPROPER TANK
FUEL PUMPOFF
MIXTURELEAN AS REQ
LANDING LIGHTS.....OFF

N31082 Piper Warrior 161 - Checklist

APPROACH

ATIS/AWOSCHECK
ALTIMETERSET
AIRPORT DIAGRAMCHECK
LANDING LIGHTSON
MIXTUREADJUST
APPROACHBRIEFED

BEFORE LANDING

POWERAS REQUIRED
MIXTURERICH
CARB HEATAS REQ
FUEL PUMPON
LANDING LIGHTSON
FUEL SELECTORPROPER TANK
SEAT BELTSFASTENED
FLAPSAS REQ
FLIGHT INSTRUMENTSCHECK

NORMAL LANDING

FLAPSAS REQ
AIRSPEED0° FLAPS 72 KTS
.....25° FLAPS 66 KTS
.....40° FLAPS 63 KTS

SHORT-FIELD LANDING

FLAPS40° FLAPS
TRIM TO MAINTAIN 70 KTS
AIRSPEEDFINAL APPROACH 63 KTS
FLAPSRETRACT AFTER TOUCH OWN
BRAKESAPPLY

N31082 Piper Warrior 161 - Checklist

GO AROUND

THROTTLEFULL FWD
CARB HEATOFF
PITCHUP
FLAPSRETRACT TO 25°
AIRSPEED (V_x)PITCH FOR 63 KTS
POSITIVE RATE OF CLIMBCONFIRM
FLAPSRETRACT AT SAFE ALTITUDE
CLIMB (V_y)79 KTS

N31082 Piper Warrior 161 - Checklist

CLEAR OF RUNWAY

FLAPS.....RETRACT
CARB HEAT.....OFF
LANDING LIGHTS.....AS REQ
STROBES.....OFF
FUEL PUMPOFF
MIXTURELEAN FOR TAXI
TAXI CLEARANCE.....BRIEF

SHUTDOWN

THROTTLE<1000 RPM
TRANSPONDERSTANDBY & 1200
LANDING LIGHTS.....OFF
STROBESOFF
ANTI-COLLISION LIGHT.....OFF
RADIOS MASTER.....OFF
MIXTUREIDLE CUTOFF
MASTER.....OFF
MAGNETOSOFF
KEY.....REMOVED

SECURING

WINDOW.....CLOSED
FLIGHT CONTROLSSECURED
COCKPIT.....CLEAN OF DEBRIS
PARKING BRAKE.....OFF
HOBBS/TACHRECORDED
DOOR.....CLOSED
COWL COVERS.....INSTALLED
PITOT COVER.....INSTALLED
CHOCK.....AS REQ
POST-FLIGHT WALK AROUNDCOMPLETE

N31082 Piper Warrior 161 - Checklist

EMERGENCY PROCEDURES

ENGINE POWER LOSS DURING TAKE-OFF

AIRSPPEED PITCH FOR BEST GLIDE
FUEL SELECTOR SWITCH TANKS
FUEL PUMP ON
MIXTURE CONFIRM RICH
CARBURETOR HEAT ON

ENGINE FAILURE

AIRSPPEED 73 KTS
SUITABLE FIELD SELECT
FUEL SELECTOR SWITCH TANKS
FUEL PUMP ON
MIXTURE RICH
CARBURETOR HEAT ON
ENGINE GAUGES CHECK
PRIMER IN & LOCKED
IGNITION LEFT/RIGHT/BOTH
ENGINE GAUGES CHECK

IF POWER IS RESTORED:

FUEL PUMP AS REQ
MIXTURE SET AS REQ
CARBURETOR HEAT AS REQ
LAND AS SOON AS POSSIBLE

IF POWER IS NOT RESTORED:

POWER OFF LANDING

AIRSPPEED 73 KTS
SUITABLE FIELD SELECT
TRANSPONDER 7700
COMMUNICATE MAYDAY (121.5)

N31082 Piper Warrior 161 - Checklist

WHEN COMMITTED TO LANDING:

- IGNITION SWITCH OFF
- MASTER SWITCH OFF
- FUEL SELECTOR VALVE OFF
- MIXTURE IDLE CUT-OFF
- SEAT BELTS SECURE
- PASSENGERS BRIEFED
- DOOR OPEN
- FLAPS AS REQ
- TOUCHDOWN LOWEST AIRSPEED POSSIBLE
- EXIT AIRCRAFT AS SOON AS POSSIBLE

ENGINE ROUGHNESS

- CARBURETOR HEAT ON
- MIXTURE ADJUST FOR MAX. SMOOTHNESS
- FUEL PUMP ON
- FUEL SELECTOR SWITCH TANKS
- ENGINE GAUGES CHECK
- PRIMER CONFIRM IN & LOCKED
- MAGNETOS CHECK LEFT - RIGHT - BOTH

IF ROUGHNESS PERSISTS, PREPARE FOR
PRECAUTIONARY LANDING

FIRE

ELECTRICAL FIRE (SMOKE IN CABIN)

- MASTER OFF
- VENTS OPEN
- CABIN HEAT OFF
- ELECTRICAL EQUIPMENT OFF
- LAND AS SOON AS POSSIBLE

N31082 Piper Warrior 161 - Checklist

ENGINE FIRE

- FUEL SELECTOR.....OFF
- THROTTLE CLOSED
- MIXTURE IDLE CUT-OFF
- FUEL PUMPOFF
- CABIN HEAT..... OFF
- DEFROSTER.....OFF
- THROTTLE CLOSED
- AIRSPEEDPITCH FOR EMERGENCY DESCENT

LOSS OF OIL PRESSURE/HIGH OIL TEMPERATURE

- LANDAS SOON AS PRACTICAL
- PREPARE FOR IMMINENT ENGINE FAILURE

LOSS OF FUEL PRESSURE

- FUEL PUMPON
- FUEL SELECTOR.....CHECK ON FULL TANK
- LANDAS SOON AS PRACTICAL

ALTERNATOR FAILURE

- LOAD METERCHECK
- ELECTRICAL LOADREDUCE
- CIRCUIT BREAKERSCHECK & RESET
- ALTERNATOR.....OFF (FOR 1 SECOND), THEN ON

IF POWER NOT RESTORED THEN:

- ALTERNATOROFF
- ELECTRICAL LOADREDUCE
- LANDAS SOON AS PRACTICAL

N31082 Piper Warrior 161 - Checklist

SPINS

- THROTTLE IDLE
- AILERONS NEUTRAL
- RUDDER OPPOSITE ROTATION
- CONTROL WHEEL FULL FORWARD
- RUDDER NEUTRAL (WHEN ROTATION STOPS)
- CONTROL WHEEL SMOOTHLY REGAIN LEVEL FLIGHT

OPEN DOOR

- AIRSPEED SLOW TO 87 KTS
- CABIN VENTS CLOSE
- STORM WINDOW OPEN
- SLIP IN DIRECTION OF DOOR
- DOOR LATCH CLOSED

N31082 Piper Warrior 161 - Checklist

PERFORMANCE*

Takeoff Ground Run (minimum)	1065 ft
Takeoff Distance Over 50-ft Obstacle (25 ° flaps).....	1760 ft
Rate of Climb (ft per min).....	649 ft
Service Ceiling	12,700 ft
Landing Roll (flaps down)	595 ft
Landing Roll Over 50-ft Obstacle (flaps down).....	1115 ft
Vso	44 KTS
Vs	50 KTS
Vx	63 KTS
Vy	79 KTS
Vfe	103 KTS
Va	111 KTS
Vno	126 KTS
Vne	160 KTS
Vbg	73 KTS
Max. Gross Weight	2325 lbs
Useful Load	896.5 lbs
Max. Baggage	200 lbs
Fuel	Full 50 gals
.....	Usable 48 gals
.....	Tabs 36 gals
Oil	6 - 8 quarts
Avg. Fuel Burn.....	8.5 GPH

*Please reference specific aircraft POH for flight planning.

The pilot is responsible for verifying all documents prior to flight!
For more detailed information on operating each aircraft and its systems, please refer to each aircraft's specific POH and W&B.