

PIPER WARRIOR P28-151	
PREFLIGHT INSPECTION	
1	Airworthiness Documentation VERIFY AIRWORTHY
2	Weight & C.G. WITHIN ENVELOPE
3	Performance Card COMPUTED
COCKPIT CHECK	
4	Registration Certificate ON BOARD
5	Airworthiness Certificate ON BOARD
6	Flight Manual/Operating Limitations ON BOARD
7	Hobbs Time VERIFIED
8	Control Wheel and Throttle Lock REMOVED
9	Alternate Static Source CLOSED
10	Magnetos OFF
11	Electrical Switches OFF (Except Beacon)
12	Carburetor Heat OFF
13	Avionics - All OFF
14	Master Switch ON
15	Rotating Beacon VERIFY WORKING
16	Stall Warning Horn VERIFY WORKING
17	Fuel Gauges CHECK QUANTITY
18	Master Switch OFF
19	Flaps DOWN
GENERAL EXTERNAL INSPECTION	
20	Wind Screen CLEAN
21	Right Wing CHECK FOR DAMAGE
22	Right Wing Fuel Level VISUALLY CHECK
23	Right Wing Fuel Tank SAMPLE
24	Right Wing Tiedown "REMOVE"
25	Right Fuel Tank Vent CHECK
26	Right Wheel (lines, brakes, tire 27 psi) CHECK
27	Right Gear Strut CHECK (4½" and clean)
(TURN PAGE)	

PIPER WARRIOR P28-151	
PREFLIGHT INSPECTION CONTINUED	
28	Oil Level (Min 6 quarts) CHECK
29	Propeller & Spinner CHECK (Verify Keys on Dash)
30	Fuel or Oil Leaks CHECK
31	Nose Wheel CHECK (tire, 30 psi)
32	Nose Wheel Strut CHECK (3¼" and clean)
33	Hydraulic Lines CHECK
34	Cowling Cover for Security CHECK
35	Air Intake CHECK (remove plugs)
36	Fuel Gascolator SAMPLE
37	Left Wing CHECK FOR DAMAGE
38	Left Wing Fuel Level VISUALLY CHECK
39	Left Wing Fuel Tank SAMPLE
40	Left Wing Tiedown REMOVE
41	Left Fuel Tank Vent CHECK
42	Left Wheel (lines, brakes, tire 27 psi) CHECK
43	Left Landing Gear Strut CHECK (4½" showing)
44	Left Wheel Chock REMOVE
45	Pitot Cover REMOVE
46	Pitot/Static Air Port CHECK
47	Left Side of Fuselage CHECK
48	Stabilator CHECK
49	Vertical Stabilizer (Rudder) CHECK
50	Right Side of Fuselage CHECK
51	Antennas CLEAN & CHECK
52	Baggage Door SECURE & LOCK
PREFLIGHT INSPECTION COMPLETED	

PIPER WARRIOR		
Passenger Brief		
1	PIC	DESIGNATE
2	Exchange of Controls	REVIEW
3	Operation of Seat Belts and Harness	REVIEW
4	Operation of Doors and windows	Review
5	Emergency Procedures	On Takeoff Roll, After Departure, En Route
6	Emergency and Survival Equipment	Type and Location
7	Flotation Devices	If outside gliding distance from land
8	Smoking	NOT ALLOWED
9	Crew Duties	Obstacle Avoidance
NON FLYING PASSENGERS		
1	Vents	Location and Use
2	Cabin Heat	Location and Use
3	Seat Adjustment	REVIEW
4	Airsick Bags	Location and Use
5	Sterile Cockpit	TIMES and DESIGNATION
6	Intercom and Radio	USE/Non USE

PIPER WARRIOR		
BEFORE ENGINE STARTING		
1	SEAT BELTS	FASTENED
2	PERFORMANCE CARD	REVIEW
3	PASSENGERS	BRIEFED
4	PARKING BRAKE	SET
5	FUEL	DESIRED TANK
6	FLAPS	UP
ENGINE STARTING		
1	Prime	5 Strokes
2	Throttle	1/2 Inch
3	Master	ON
4	Anti-Collision Light	ON
5	Fuel Pump	ON (Check Pressure)
6	Mixture	RICH
7	Area	Clear
8	Ignition Switch	START
9	Warm up (1000 RPM)	1400 RPM Cold Weather
10	Mixture	Lean
11	Oil Pressure	CHECK
12	Load Meter	Positive Load
13	Fuel Pump	OFF (Check Pressure)
BEFORE TAXIING		
1	Avionics	ON
2	Radios	SET
3	Transponder	SET
4	Lights	ON (if needed)
5	ATIS/AWOS Advisory	Obtain
6	Instruments	SET
7	Parking Brake	OFF
8	Brakes	CHECK on first roll

PIPER WARRIOR		
BEFORE TAKEOFF (Run-Up Area)		
1	Parking Brake	SET
2	Flight Controls	CHECK Free & Correct
3	Trim Tabs	SET (Stabilator / Rudder)
4	Fuel Pump	ON
5	Fuel	CHANGE TANKS
6	Mixture	FULL RICH
7	Throttle	2000 RPM
8	Magnetos	< 175 RPM drop per side, Difference < 50
9	Carb Heat	75 Drop
10	Vacuum Gauge	5 HG +/- 0.1
11	Engine Gauges	Ammeter, OIL Press & Temp
12	Fuel Pump	OFF (Check Pressure)
13	Fuel Pump	ON
14	Throttle	1000 RPM
15	Mixture	Lean
16	Flight Instruments	SET (Point and Tell)
17	Set GPS/VOR	AS REQUIRED
17	Radios	AS REQUIRED
18	Park Brake	OFF
AT HOLD SHORT LINE		
19	Transponder	ALT
20	Light	ON (as required)
21	Door	LATCHED
22	Pilot Window	CLOSED
23	Fuel Pump	ON
24	Trim	SET FOR TAKEOFF
25	Mixture	RICH
26	Accelerate Check	POINT IDENTIFIED
27	Tower/Traffic	CONTACT/ANNOUNCE

PIPER WARRIOR		
NORMAL TAKE-OFF		
1	Time	Note
2	Wind-T / Sock	Direction and Speed
3	Controls	CROSSWIND as needed
4	Throttle	FULL OPEN
5	Rotate	60 MPH
6	Climb	Vy 87 MPH
CRUISE CLIMB (100 MPH & above 1,000' AGL)		
1	Fuel Pump	OFF (Check Pressure)
2	Landing Light	OFF
3	CRUISE CLIMB	100 MPH
CRUISE		
1	Power	SET
2	Mixture	LEAN
AFTER 1 HOUR OF FLIGHT		
3	Fuel Pump	ON
4	Fuel Selector	SWITCH TANKS
5	Fuel Pump	OFF (CHECK PRESSURE)
NOTE: AFTER SWITCHING USE TANK FOR 2 HOURS THEN, RETURN TO 1st TANK FOR 1 HOUR		

PIPER WARRIOR		
SHORT FIELD TAKE-OFF		
BEFORE BACK TAXI		
1	Flaps	25 DEGREES
2	Time-Xponder-Lights	Note-ALT-On
3	Fuel Pump	CHECK ON
4	Taxi	USE ALL RUNWAY
5	Brakes	Apply, 2000 RPM, Ck Inst
6	Throttle	FULL, then release brakes
7	Accelerate	LIFT OFF AT 60 MPH
8	Climb	Vx (66MPH)
9	Obstacle Clear	CLIMB Vy (87 MPH)
10	Flaps	RETRACT SLOWLY
CRUISE CLIMB (100 MPH & 1,000' AGL)		
1	Fuel Pump	OFF (Check Pressure)
2	Landing Light	OFF
3	Cruise Climb	100 MPH
CRUISE		
1	Power	SET
2	Mixture	LEAN FOR CRUISE
AFTER 1 HOUR OF FLIGHT		
3	Fuel Pump	ON
4	Fuel Selector	SWITCH TANKS
5	Fuel Pump	OFF (CHECK PRESSURE)
NOTE: AFTER SWITCHING USE TANK FOR 2 HOURS THEN, RETURN TO 1st TANK FOR 1 HOUR		

PIPER WARRIOR		
SOFT FIELD TAKE-OFF		
BEFORE TAXI		
1	Flaps	25 DEGREES
2	Time-Xponder-Lights	Note-ALT-On
3	Fuel Pump	CHECK ON
4	Taxi	YOKE BACK, DON'T STOP
5	Throttle	FULL OPEN (Smoothly)
6	Takeoff	IN GROUND EFFECT
7	Accelerate	TO ROTATION SPEED
8	Climb	Vy 87 MPH
9	Flaps	RETRACT (Slowly)
10	Climb	100 MPH
CRUISE CLIMB (100 MPH)		
1	Fuel Pump	OFF (Check Pressure)
2	Landing Light	OFF
3	Cruise Climb	100 MPH
CRUISE		
1	POWER	SET
2	MIXTURE	LEAN FOR CRUISE
AFTER 1 HOUR OF FLIGHT		
2	FUEL PUMP	ON
3	FUEL SELECTOR	SWITCH TANKS
4	FUEL PUMP	OFF (CHECK PRESSURE)
NOTE: AFTER SWITCHING USE TANK FOR 2 HOURS THEN, RETURN TO 1st TANK FOR 1 HOUR		

PIPER WARRIOR		
DESCENT CHECKLIST		
DESCENT		
1	CARB HEAT	As Needed
2	POWER	Reduce for Descent
3	MIXTURE	Adjust as necessary
4	LIGHTS	On as needed
5	WIRED Checklist	
	Weather	AWOS/ATIS
	Instruments	DG / HI Reset
	Radios	Set for UNICOM/ATC
	Entry Procedure	45 to downwind or approach
	Descent Checklist	Descent and Pre-Landing

PIPER WARRIOR		
BEFORE LANDING / NORMAL LANDING		
BEFORE LANDING		
1	Seat Belts	ERECT & FASTENED
2	Landing Light	ON, if required
3	Fuel Pump	ON
4	Fuel Tank	PROPER TANK
5	Mixture	Rich
6	Carb Heat	As Needed
NORMAL LANDING		
1	Power	2100 RPM, 100 MPH
2	Wind	CHECK
3	Abeam Landing Pt	1500 RPM
	Flaps	10 DEGREES
	Airspeed	90 MPH
4	Base	
	Flaps	25 DEGREES
	Airspeed	80 MPH
5	Final	
	Flaps	40 DEGREES
	Airspeed	75 MPH
	Vs0 = 58 MPH	
	Vs1 = 65 MPH	

PIPER WARRIOR		
SHORT FIELD LANDING		
BEFORE LANDING		
1	Seat Belts	ERECT & FASTENED
2	Landing Light	ON, as needed
3	Fuel Pump	ON
4	Fuel Tank	PROPER TANK
5	Mixture	RICH
6	Carb Heat	As Needed
SHORT FIELD LANDING		
1	Downwind	2100 RPM, 100 MPH
2	Abeam	POWER to 1700 RPM
	Flaps	10 DEGREES
	Airspeed	90 MPH
3	Base	
	Flaps	25 DEGREES
	Airspeed	80 MPH
4	Final	
	Flaps	40 DEGREES
	Power	1300 RPM
	Airspeed	73 MPH
5	Landing	
	Flaps	RETRACT on touchdown
	Brakes	APPLY
	Vs0 = 58 MPH	
	Vs1 = 65 MPH	

PIPER Warrior		
SOFT FIELD LANDING		
BEFORE LANDING		
1	Seat and Belts	ERECT & FASTENED
2	Landing Light	ON (if required)
3	Fuel Pump	ON
4	Fuel Tank	PROPER TANK
5	Mixture	RICH
6	Carb Heat	As Needed
SOFT FIELD LANDING		
1	Downwind	2100 RPM, 100 MPH
2	Abeam	1500 RPM
	Flaps	10 DEGREES
	Airspeed	90 MPH
3	Base	
	Flaps	25 DEGREES
	Airspeed	80 MPH
4	Final	
	Airspeed	73 MPH
	Flaps	40 Degrees
5	Flare	1000-1200 RPM
6	Touchdown	NEAR STALL
	Nose Wheel	HOLD OFF
	Taxi	YOKE AFT, DO NOT STOP
	Brakes	USE SAFETY/TURN ONLY
	Vs0 = 58 MPH	
	Vs1 = 65 MPH	

PIPER Warrior		
AFTER LANDING / SHUTDOWN		
AFTER-LANDING (Clear Runway)		
1	Flaps	UP
2	Lights	As necessary
4	Trim	Reset for take-off
5	Fuel Pump	OFF
6	Mixture	LEAN AS REQUIRED
SHUTDOWN		
1	Avionics	OFF
2	Lights	OFF
3	Beacon	ON
4	Throttle	1000 RPM
5	Magnetos	Check L/R
6	Mixture	IDLE CUT-OFF
7	Master	OFF
8	Magnetos	OFF

PIPER Warrior		
ENGINE FAILURE (RESTART)		
1	Airspeed	84 MPH
2	Best Landing Site	SELECT and TURN TO
3	Check list (RESTART)	
a	Fuel Tank	SWITCH
b	Fuel Pump	ON
c	Carb Heat	ON
d	Primer	IN and LOCKED
e	Mixture	FULL RICH
f	Alternate Air	OPEN
g	Gauges	CHECK
h	Magnetos	LEFT / RIGHT
EMERGENCY LANDING (NO-RESTART)		
1	Throttle	Closed
2	Squawk	7700
3	Radio - MAYDAY	121.5
4	Mixture	IDLE CUT-OFF
5	Fuel Selector	OFF
6	Magnetos	OFF
7	Seat Belts	SECURE
8	Door	UNLATCH
9	Flaps	AS REQUIRED
10	Passenger	CUSHION
11	Master	OFF
ENGINE FIRE EMERG DESCENT (CLEAN)		
1	Fuel Selector	OFF
2	Throttle	CLOSED
3	Mixture	IDLE CUT-OFF
4	Fuel Pump	OFF
5	Heater	OFF
6	Defroster	OFF
7	Blow out Fire	STEEP BANK / TURN / DIVE
8	Land	Emergency Landing Checklist

PIPER Warrior		
EMERGENCY DESCENT (DIRTY)		
1	Power	IDLE
3	Flaps	FULL
4	Airspeed	119 MPH
ALTERNATOR FAILURE		
1	Electrical Load	REDUCE
2	Alt Breaker	CHECK
3	Alt Switch	OFF (1 sec) ON
4	ALT (NO RESET)	MIN. ELEC LOAD
5	Land	Nearest Suitable
ELECTRICAL FIRE		
1	Master Switch	OFF
2	Vents	OPEN
3	Cabin Heat	OFF
4	Land	As Appropriate
ABORT LANDING (GO AROUND)		
1	Throttle	FULL
2	Flaps	25 DEGREES
3	Pitch	UP (Positive Climb)
4	Flaps	RETRACT (Slowly)
WING FIRE		
1	Master Switch	OFF
2	Nav Lights	OFF
3	Strobe Lights	OFF
4	Pitot Heat	OFF
5	Airspeed	100 MPH
6	Side Slip	Flames away from Cabin
7	Land	As Appropriate

AIRSPEEDS		
V _R	Rotation Speed	60 MPH
V _X	Best Angle Climb	66 PMH
V _Y	Best Rate of Climb	87 MPH
	Enroute Climb	100 MPH
V _A	Maneuvering Speed	124 MPH
L/D	Best Glide	84 MPH
V _{FE}	Max Flap Extension Speed	
V _{SO}	Stall Speed w/ Full Flaps	58 MPH
V _{S1}	Stall Speed w/ NO Flaps	64 MPH
1.3 V _{SO}	Final Approach Airspeed	73 MPH
	Minimum Oil Level	6 Qts
	Usable Fuel	50 Gallons
	Fuel at Tab	36 Gallons