

Preflight PA28-161 Piper Warrior

1. **Fuel Level** **VISUAL CHECK**
2. Hobbs Book **CHECK #'s**
3. Paperwork **ARROW-AV1ATE**
4. Seat Height **SET UP**
5. Control Lock **REMOVE**
6. Instruments **0's, INOP FLAGS**
7. Flaps **DOWN**
8. Trim **SET "TAKEOFF"**
9. Static Drain **PRESS/DRAIN**
10. Master **ON**
11. Fuel Qty **CHECK**
12. Turn Coordinator **LISTEN**
13. Beacon/Nav/Lights **CHECK LIGHTS**
14. Annunciator **TEST LIGHTS**
15. Stall Horn **TEST**
16. Pitot Heat **CHECK**
17. Master **OFF**
18. Preflight **WALK AROUND**
 - Fuel Level **VISUAL CHECK**
 - Fuel Sumps **DRAIN 3 SUMPS**
 - Oil **5-8 Qts**
 - 360 Walk **TIE-DOWNS**

Passenger Briefing Checklist

1. Seat Belts **EXPLAIN and ON**
2. Door / Exiting Plane **EXPLAIN**
3. First Aid/Fire Ext **LOCATE**
4. Scanning for Traffic **ASSIST**
5. Exchange Controls **EXPLAIN**
6. Seat Rail Locks **CHECK**

Engine Start Checklist

1. Brakes **SET**
2. Flaps **UP**
3. Electrical **ALL OFF**
4. Circuit Breakers **ALL IN**
5. Carburetor Heat **OFF**
6. Prime **AS RQ'd (2-3)**
7. Primer **LOCKED**
8. Master Switch **ON**
9. Fuel Selector **PICK A SIDE**
10. Lights **OFF for DAY**
11. Throttle **1/4 Inch Open**
12. Area *******"CLEAR"*******
13. Mixture **FULL RICH**
14. Fuel Pump **ON**
15. Magnetos/Starter **CRANK ENGINE**
16. Throttle **800-1000 RPM**
17. Mixture **LEAN for TAXI**
18. Oil Pressure **30 Sec. GREEN**
19. Fuel Pump **OFF**
20. Avionics Master **ON**
21. Instruments **DG to Compass**
22. Transponder **1200 "STANDBY"**
23. ATIS **SET Altimeter**

Contact GROUND for Taxi to Runway

While Taxi Checklist

- Brakes **TEST both sides**
 Verify Instruments **6 PACK CHECK**
 Compass/TC/DG **INTO WIND**
- Position at Run-up

Run-Up Checklist

1. Brakes **SET**
2. Doors/Windows **CLOSED**
3. Belts/Harness **SECURED**
4. Controls **CHECK**
5. Trim **SET TAKEOFF**
6. Instruments **SET AI/DG**
7. Alt Static **PULL CHECK VSI**
8. Fuel Selector **SWITCH TANKS**
9. Blast Area **CLEAR BEHIND**
10. Throttle **2000 RPM**
11. Engine Instruments **ALL GREEN**
12. Mixture **LEAN**
13. Magnetos **175 Max, 50 Diff**
14. Carburetor Heat **CHECK then OFF**
15. Fuel Pump **ON, Check Flow**
16. Ammeter Check **+CHARGING**
17. Vac/OilPress/Temp **ALL GREEN**
18. Throttle **800-1000 RPM**
19. *IFR: Pitot Heat* **Turn On for IFR**

Ready for Takeoff Checklist

- Lights **STROBES / LANDING**
 Camera **TRANSPONDER "Alt"**
 Action **Note Takeoff Time**
FUEL PUMP ON
- Review **Vspeeds**
 Review **Take Off Engine Loss**
 Review **WINDS**
Contact Ground or Tower

Airspeeds	PA28-161
V1 abort takeoff	39 KIAS (50% Rwy)
Vs0 stall w/Flaps	44 KIAS
Vs1 stall clean	50 KIAS
Vr rotate	55 KIAS
Vy best rate	80 KIAS
Vx best angle	63 KIAS
Vbest glide	73 KIAS Glide
Vfe flaps extend	103 KIAS full flaps
Va maneuvering	111 KIAS- 2325 lbs
Vno max cruise	126 KIAS
Vne never exceed	160 KIAS
Landing: 1700 rpm	75 base/final - 65 over #'s

Takeoff Checklist (Normal Takeoff)

- Trim **SET TAKEOFF**
 Flaps **UP**
 Vrotate **55 KIAS Vrotate**
 Vy **80 KIAS Vy**

Short Field Takeoff

- Flaps **25 degrees**
 Vrotate **55 KIAS Vrotate**
 Vx **63 KIAS**

Cruise/Climb Checklist

1. Climb Airspeed **85-90 KIAS**
2. Fuel Pump **OFF**
3. Landing Light **OFF**
4. Mixture **Lean as RQD**
5. Power **As RQD**

Pre Landing Checklist

- C** - Carb Heat **FULL ON**
G - Gas **Fullest Tank**
U - Undercarriage **--**
M - Mixture **RICH if Necessary**
P - Pump **FUEL PUMP ON**
S - Switches **Landing Light ON**
S - Safety **Seat Belts ON**

Landing

- Downwind **80 KIAS @ 2000rpm**
 Abeam #'s **75 KIAS @ 1700rpm**
 Flaps **1 Notch**
Over the #'s 65 KIAS FULL FLAPS
 Short Field **65 KIAS over numbers**
 ** Gusty or Cross Winds No Flaps, SLIP

Go Around (ABORTED LANDING)

- Throttle **FULL THROTTLE**
 Carb Heat **OFF**
 Flaps **UP, to 2 notches**
 Airspeed **Establish 65+ KIAS**
 Flaps **Bring up SLOWLY**

Clear Runway Checklist

- Trim **SET "TAKEOFF"**
 Flaps **UP**
 Carb Heat **OFF**
 Fuel Pump **OFF**
 Landing Light **OFF**
 Transponder **1200 "STDBY"**
IFR: Instruments **CHECK 6 pack**

Shutdown Checklist

- Electrical **AVIONICS OFF**
 Throttle **IDLE**
 Mixture **IDLE CUTOFF**
 Magnetos **OFF**
 Master **OFF**
 Control Lock **SECURE**
 Tiedowns **FASTEN**

CLOSE FLIGHT PLAN

Emergency Procedures

Engine Failure PA28-161

Memory Items ABCDE

A Airspeed	73 KIAS
B Best Place to Land	(Check Wind Dir)
C Checklist	TRY RESTART
D Declare Emergency	121.5 MAYDAY
	7700 IDENT
E Execute Landing	Doors Open
	Belts..

ENGINE RESTART Procedures

Fuel Selector	FULLEST TANK
Fuel Pump	ON
Mixture	FULL RICH
Throttle	FULL THROTTLE
Carburetor Heat	FULL ON
Magnetos	BOTH

Before TOUCHDOWN (forced landing)

Doors	OPEN
Belts	SECURE
Cushions	PROTECT HEAD
Mixture	IDLE CUTOFF
Fuel Selector	OFF
Magnetos	OFF
Flaps	FULL if POSSIBLE
Master	OFF
Landing	SOFT FIELD TYPE

Engine Fire in Flight

Mixture	IDLE CUTOFF
Fuel Selector	OFF
Cabin Air/Heat	CLOSE VENTS
Flaps	FULL FLAPS
Master	OFF
Airspeed	TOP of WHITE 95 KIAS
Bank Angle	45 DEGREES

Proceed with Engine Failure Above

Electrical Fire in Flight

Master	OFF
Avionics	OFF
All Switches	OFF
Vents/Cabin Air	CLOSED
Fire Extinguisher	ACTIVATE
Fire	EXTINGUISHED
Vents/Cabin Air	VENT CABIN

If electrical power is necessary, then:

Master	ON
Circuit Breakers	CHK, do not reset
Radios	OFF
Avionics Master	ON
Radios/Switches	ONE AT A TIME

Wing Fire

Navigation Lights	OFF
Pitot Heat	OFF
Strobe Lights	OFF
Side Slip	PERFORM

Excessive Rate of Charge

Alternator	OFF
Alternator Breaker	PULL OFF
Nonessential Equipment	OFF
Flight	Terminate ASAP

Low Voltage Light On

Avionics Master	OFF
Alternator Circuit Breaker	CHECK IN
Master (both sides)	OFF
Master (both sides)	ON
Low Voltage Light	CHECK
Avionics Master	ON
If low-voltage light illuminates again, then	
Alternator	OFF
Nonessential Radios/Equip	OFF
Flight	Terminate ASAP

Lost - 'CCCCC'

Climb	(Better radio range)
Communicate	(FSS, 121.5)
Confess	(Ask for help)
Comply	(Follow advice)
Conserve	(Fuel-slow down)

SPIN RECOVERY

Throttle	IDLE
Ailerons	NEUTRAL
Rudder	OPPOSITE Rotation
Elevator	FWD BRISKLY
Rotation	STOPPED
Controls	NUETRALIZE
Recover	SLOWLY

PA28-161 Performance (160hp)

Fuel Capacity	48/34 Usable Gallons
Fuel Burn	~ GPH
Range	~ NM
Endurance	~ Hours

Airport	WX	Twr-CTAF	TPA	Runways
KBJC	126.250	118.6/121.7	6500	30RL/12RL
KEIK	133.825	123.000	6200	34/16rp
KLMO	120.000	122.975	6000	29/11
KFNL	135.075	118.4/121.65	6000	33/15
KBDU	118.825	122.725	6300	8/26rp
KGXY	135.175	122.800	5500	35/17/28/10
KAPA	120.300	118.9/121.8	6900	35RL/17RL
Practice Area Longmont			123.175	
Practice Area Chatfield			122.750	
Emergency		121.500		
Flight Service		122.200		
Den App	(W)126.1	(N)134.85	(E)128.25	(S)128.45
KBJC Fuel Truck		(303) 466-2336	122.950	
KBJC Tower		(303) 633-8600		
IFR Clearance		(888) 766-8267		

Maneuver Configuration (Clearing Turns, Altitude, Landing Area)

Steep Turns	Flaps UP, Gear UP, xx*MP/xxxrpm, xxx KIAS, Add xx in Turn
Slow Flight	Flaps FULL, Gear DOWN, xx*MP then xx*MP Prop FULL, xx KIAS
Power On Stall	Flaps UP, Gear DOWN, xx*MP, Prop FULL, xx KIAS, then Full Power
Power Off Stall	Flaps DOWN, Gear DOWN, xx*MP, Prop FULL, Descend, then IDLE
Emergency Descent	Flaps DOWN, Gear DOWN, Prop FULL, Power IDLE, 30° xxx KIAS
Steep Spiral	Flaps UP, Gear UP, Prop FULL, Power IDLE, <60°, xx KIAS
Ground Ref	Flaps UP, Gear UP, Prop FULL, xx*MP, xxx KIAS
Chandelle	Flaps UP, Gear UP, Prop FULL, xx*MP, xxx KIAS, then Power FULL
Lazy 8	Flaps UP, Gear UP, Prop FULL, xx*MP, xxx KIAS