

Preflight PA28-181 Piper Archer		
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	
<input type="checkbox"/> Fuel Level	VISUALY CHECK	
<input type="checkbox"/> Fuel Sumps	DRAIN 3 SUMPS	
<input type="checkbox"/> Oil	5-8 Qts	
<input type="checkbox"/> 360 Walk	TIE-DOWNS	

Passenger Briefing Checklist

1. Seat Belts	EXPLAIN
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	PA28-181
V1 abort takeoff	42 KIAS (50% Rwy)
Vs0 stall w/Flaps	49 KIAS
Vs1 stall clean	55 KIAS
Vr rotate	60 KIAS
Vy best rate	76 KIAS
Vx best angle	64 KIAS
Vbest glide	76 KIAS Glide
Vfe flaps extend	102 KIAS full flaps
Va maneuvering	113 KIAS- 2550 lbs
Vno max cruise	125 KIAS
Vne never exceed	154 KIAS
Landing: 1700 rpm	75 base/final - 65 over #'s

Takeoff Checklist (Normal Takeoff)

Trim	SET TAKEOFF
Flaps	UP
Vrotate	60 KIAS Vrotate
Vy	76 KIAS Vy

Short Field Takeoff

Flaps	25 degrees
Vrotate	60 KIAS Vrotate
Vx	64 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 PA28-181

Memory Items ABCDE

A Airspeed	76 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
	Seatbelts..

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

PA28-181 Performance (180hp)

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