

Preflight PA28-R201 Piper Arrow

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. Gear Lever **GEAR DOWN**
8. Flaps **DOWN**
9. Trim **SET "TAKEOFF"**
10. Static Drain **PRESS/DRAIN**
11. Master **ON**
12. Fuel Qty **CHECK**
13. Turn Coordinator **LISTEN**
14. Gear Indicators **3 GREEN**
15. Beacon/Nav/Lights **CHECK LIGHTS**
16. Annunc/Stall Horn **TEST LIGHTS**
17. Pitot Heat **CHECK**
18. Master **OFF**
19. Preflight **WALK AROUND**
 - Fuel Level **VISUAL CHECK**
 - Fuel Sumps **DRAIN 3 SUMPS**
 - Oil **6-8 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. Alternate Air **OFF**
6. Prop **FULL FORWARD**
7. Master AND ALTR **BOTH ON**
8. Fuel Selector **PICK A SIDE**
9. Lights **OFF for DAY**
10. Throttle **1/4 Inch Open**
11. Area *******"CLEAR"*******
12. Mixture **IDLE CUT OFF**
13. Fuel Pump **ON**
14. Mixture **RICH 5 SEC/FLOW/ICO**
15. Magnetos/Starter **CRANK ENGINE**
16. Mixture **RICH ON RUN**
17. Throttle **800-1000 RPM**
18. Mixture **LEAN for TAXI**
19. Oil Pressure **30 Sec. GREEN**
20. Avionics Master **ON**
21. Fuel Pump **OFF**
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 Attitude**
DG to Compass
PULL CHECK VSI
SWITCH TANKS
CLEAR BEHIND
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. Alternate Air **CHECK then OFF**
15. Propeller **3 times, -300RPM**
16. Fuel Pump **ON, Check Flow**
17. Ammeter Check **+CHARGING**
18. Vac/OilPress/Temp **ALL GREEN**
19. Throttle **800-1000 RPM**
20. *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-R201
V1 abort takeoff	46 KIAS (50% Rwy)
Vs0 stall w/Flaps	55 KIAS
Vs1 stall clean	60 KIAS
Vr rotate	65 KIAS
Vy best rate	90 KIAS
Vx best angle	78 KIAS
Vbest glide	79 KIAS Glide
Vfe flaps extend	103 KIAS full flaps
Va maneuvering	118 KIAS- 2750 lbs
Vno max cruise	146 KIAS
Vne never exceed	183 KIAS
Vlo gear operation	107 KIAS
Vle gear extended	103 KIAS
Landing: 15" MP	80 base/final - 75 over #'s

Takeoff Checklist

- Trim **SET TAKEOFF**
 Flaps **UP**
 Vrotate **65 KIAS Vrotate**
 Vy **90 KIAS Vy**
 Landing Gear **UP when Clear**

Short Field Takeoff

- Flaps **25 degrees**
 Vrotate **65 KIAS Vrotate**
 Vx **78 KIAS**

Cruise/Climb Checklist

1. Climb Airspeed **95-105 KIAS**
2. Fuel Pump **OFF**
3. Landing Light **OFF**
4. Mixture **Lean as RQD**
5. Prop/Power **SET BOTH**

Pre Landing Checklist

- G - Gas **Fullest Tank**
 G - Gauges **Fuel Quantity**
 U - Undercarriage **GEAR DOWN**
 M - Mixture **RICH if Necessary**
 P - Props **FULL FWD**
 P - Pump **FUEL PUMP ON**
 S - Switches **Landing Light ON**
 S - Safety **Seat Belts ON**

Landing

- Downwind **90 KIAS @ 20" MP**
 Abeam #'s **80 KIAS @ 15" MP**
 Flaps **1 Notch**
Over the #'s 75 KIAS FULL FLAPS
 Short Field **70 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**
 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-R201

Memory Items ABCDE

A Airspeed	79 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
Alternate Air	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

Emergency Gear Extension

Master/ALTR Switch	ON
Circuit Breakers	CHECK IN
NAV LIGHTS	OFF (daytime)
Gear Indicator Bulbs	CHECK / SWAP
Airspeed	BELOW 87 KIAS
Gear Selector	DOWN
EMERGENCY LEVER	DOWN and HOLD
If no Gear down	YAW and SLOW

Lost - 'CCCC'

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-R201 Performance (200hp)

Fuel Capacity	72/50 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, Fuel Pump, Landing Light)

Steep Turns	Flaps UP, Gear UP, 20"MP/2400, 100 KIAS, Add 1"MP in Turn
Slow Flight	Flaps FULL, Gear DOWN, 15"MP/Full then 21"MP/Full, 60 KIAS
Power On Stall	Flaps UP, Gear DOWN, 13"MP/Full, 65 KIAS, then Full Power/Pitch Up
Power Off Stall	Flaps DOWN, Gear DOWN, 15"MP/Full, 80 KIAS, Descend, then IDLE
Emergency Descent	Flaps DOWN, Gear DOWN, Prop FULL, Power IDLE, 30° 100 KIAS
Steep Spiral	Flaps UP, Gear UP, Prop FULL, Power IDLE, <60°, 79 KIAS
Ground Ref	Flaps UP, Gear UP, 20"MP/2400, 100 KIAS
8's on Pylons	Flaps UP, Gear UP, 20"MP/2400, 100 KIAS
Chandelle	Flaps UP, Gear UP, 20"MP/Full, 100 KIAS, then Power FULL
Lazy 8	Flaps UP, Gear UP, 20"MP/Full, 100 KIAS
Accelerated Stall	Flaps UP, Gear UP, 18"MP/Full, 90 KIAS, then IDLE (bank 45, pitch up)