

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
	<input type="checkbox"/> Fuel Level	VISUAL CHECK
	<input type="checkbox"/> Fuel Sumps	DRAIN 3 SUMPS
	<input type="checkbox"/> Oil	6-8 Qts
	<input type="checkbox"/> 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.	Beacon	ON
10.	Fuel Pump	OFF
11.	Throttle	1/4 Inch Open
12.	Mixture	FULL RICH
13.	Fuel Pump	ON 3-5 seconds
14.	Fuel Pump	OFF (don't flood)
15.	Area	*****? CLEAR ?*****
16.	Magnetos/Starter	CRANK ENGINE
17.	Throttle	800-1000 RPM
18.	Mixture	LEAN for TAXI
19.	Oil Pressure	30 Sec. GREEN
20.	Avionics Master	ON
21.	Transponder	1200 "STANDBY"
22.	ATIS	SET Altimeter

Contact GROUND for Taxi

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
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	Rich then 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

Descent Checklist

1.	Power	Reduce as RQD
2.	Mixture	Enrichen as RQD

Pre Landing Checklist

G - Gas	Fulllest 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"

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

Emergency Landing (without power)

Airspeed	79 KIAS
Belts	SECURE
Cushions	PROTECT HEAD
Mixture	IDLE CUTOFF
Fuel Selector	OFF
Magnetos	OFF
Flaps	FULL if possible
Master	OFF
Doors	OPEN
Landing	SOFT FIELD

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 Emergency Landing	

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 - '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	NEUTRALIZE
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)