

Preflight PA32-260 Cherokee 6	
1. Fuel Level (4 tanks)	<b>VISUAL CHECK</b>
2. Hobbs Book	<b>CHECK #'s</b>
3. Paperwork	<b>ARROW-AV1ATE</b>
4. Seat Height	<b>SET UP</b>
5. Control Lock	<b>REMOVE</b>
6. Instruments	<b>0's, INOP FLAGS</b>
7. Flaps	<b>DOWN</b>
8. Trim	<b>SET "TAKEOFF"</b>
9. Static Drain	<b>PRESS/DRAIN</b>
10. Master	<b>ON</b>
11. Fuel Qty	<b>CHECK 4 tanks</b>
12. Turn Coordinator	<b>LISTEN</b>
13. Beacon/Nav/Lights	<b>CHECK LIGHTS</b>
14. Annunciator	<b>TEST LIGHTS</b>
15. Stall Horn	<b>TEST</b>
16. Pitot Heat	<b>CHECK</b>
17. Master	<b>OFF</b>
18. Preflight	<b>WALK AROUND</b>
<input type="checkbox"/> Fuel Level	<b>VISUAL CHECK</b>
<input type="checkbox"/> Fuel Sumps	<b>DRAIN 5 SUMPS</b>
<input type="checkbox"/> Oil	<b>4-12 Qts</b>
<input type="checkbox"/> 360 Walk	<b>TIE-DOWNS</b>

#### Passenger Briefing Checklist

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

#### Engine Start Checklist

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

**Contact GROUND for Taxi to Runway**

#### While Taxi Checklist

Brakes	<b>TEST both sides</b>
Verify Instruments	<b>6 PACK CHECK</b>
	<b>Compass/TC/DG</b>
	<b>INTO WIND</b>

#### Position at Run-up

#### Run-Up Checklist

1. Brakes	<b>SET</b>
2. Doors/Windows	<b>CLOSED</b>
3. Belts/Harness	<b>SECURED</b>
4. Controls	<b>CHECK</b>
5. Trim	<b>SET TAKEOFF</b>
6. Instruments	<b>SET Attitude</b>
	<b>DG to Compass</b>
7. Alt Static	<b>PULL CHECK VSI</b>
8. Fuel Selector	<b>SWITCH TANKS</b>
9. Blast Area	<b>CLEAR BEHIND</b>
10. Throttle	<b>2000 RPM</b>
11. Engine Instruments	<b>ALL GREEN</b>
12. Mixture	<b>LEAN</b>
13. Magnetos	<b>175 Max, 50 Diff</b>
14. Carburetor Heat	<b>CHECK then OFF</b>
15. Propeller	<b>3 times, -300RPM</b>
16. Ammeter Check	<b>+CHARGING</b>
17. Vac/OilPress/Temp	<b>ALL GREEN</b>
18. Throttle	<b>800-1000 RPM</b>
19. IFR: Pitot Heat	<b>Turn On for IFR</b>

#### Ready for Takeoff Checklist

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

#### Airspeeds

V1 abort takeoff	<b>46 MPH (50% Rwy)</b>
Vs0 stall w/Flaps	<b>63 MPH (55 kts)</b>
Vs1 stall clean	<b>71 MPH (62 kts)</b>
Vr rotate	<b>65 MPH (56 kts)</b>
Vy best rate	<b>105 MPH (91 kts)</b>
Vx best angle	<b>95 MPH (83 kts)</b>
Vbest glide	<b>100 MPH (87 kts)</b>
Vfe flaps extend	<b>125 MPH (109 kts)</b>
Va maneuvering	<b>149 MPH (129 kts)</b>
Vno max cruise	<b>168 MPH (146 kts)</b>
Vne never exceed	<b>212 MPH (184 kts)</b>

**Landing: 13"MP 92mph base/final – 86 over #'s**

#### Takeoff Checklist

Trim	<b>SET TAKEOFF</b>
Flaps	<b>10° (1 notch) 25° short/soft</b>
Vrotate	<b>65 MPH Vrotate</b>
Vy	<b>105 MPH</b>

#### Short Field Takeoff

Flaps	<b>25° (2 notches)</b>
Vrotate	<b>65 MPH Vrotate</b>
Vx	<b>95 MPH</b>

#### Cruise/Climb Checklist

1. Climb Airspeed	<b>105-120 MPH</b>
2. Fuel Pump	<b>OFF</b>
3. Landing Light	<b>OFF</b>
4. Mixture	<b>Lean as RQD</b>
5. Prop/Power	<b>SET BOTH</b>

#### Pre Landing Checklist

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

#### Landing

Downwind	<b>110 MPH @ 17" MP</b>
Abeam #'s	<b>92 MPH @ 13" MP</b>
Flaps	<b>1 Notch</b>
Over the #'s	<b>86 MPH FULL FLAPS</b>
Short Field	<b>86 MPH over numbers</b>
** Gusty or Cross Winds	<b>No Flaps, SLIP</b>

#### Go Around (ABORTED LANDING)

Throttle	<b>FULL THROTTLE</b>
Carb Heat	<b>OFF</b>
Flaps	<b>UP, to 2 notches</b>
Airspeed	<b>Establish 95+ MPH</b>
Flaps	<b>Bring up SLOWLY</b>

#### Clear Runway Checklist

Trim	<b>SET "TAKEOFF"</b>
Flaps	<b>UP</b>
Fuel Pump	<b>OFF</b>
Landing Light	<b>OFF</b>
Transponder	<b>1200 "STDBY"</b>
IFR: Instruments	<b>CHECK 6 pack</b>

#### Shutdown Checklist

Electrical	<b>AVIONICS OFF</b>
Throttle	<b>IDLE</b>
Mixture	<b>IDLE CUTOFF</b>
Magnetos	<b>OFF</b>
Master	<b>OFF</b>
Control Lock	<b>SECURE</b>
Tiedowns	<b>FASTEN</b>

## CLOSE FLIGHT PLAN

#### Power Settings

Press Alt	Power	MP	RPM	MPH	GPH
5000	75%	22.5	2500	134	14
5000	65%	20.8	2400	126	12.2
5000	55%	19.2	2300	114	10.4
7000	75%	22.5	2400	134	14
7000	65%	21.1	2300	125	12.2
7000	55%	19.3	2200	115	10.4

#### Notes:

- Airspeed Indicator outer ring is MPH
- All Vspeeds listed here are MPH

#### Hot or Flooded Engine Start Checklist

Fuel Pump	<b>OFF</b>
Throttle	<b>FULL OPEN</b>
Mixture	<b>IDLE CUT OFF</b>
Starter	<b>CRANK</b>
Mixture	<b>Advance Smoothly</b>

# Emergency Procedures

## Engine Failure PA32-260

### Memory Items ABCDE

<b>A</b> Airspeed	<b>100 MPH</b>
<b>B</b> Best Place to Land	<b>(Check Wind Dir)</b>
<b>C</b> Checklist	<b>TRY RESTART</b>
<b>D</b> Declare Emergency	<b>121.5 MAYDAY</b>
	<b>7700 IDENT</b>
<b>E</b> Execute Landing	<b>Doors Open</b>
	<b>SeatBelts..</b>

### 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 <b>125 MPH</b>
Bank Angle	45 DEGREES
<b>Proceed with Engine Failure Above</b>	

## 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

<b>Throttle</b>	<b>IDLE</b>
<b>Ailerons</b>	<b>NEUTRAL</b>
<b>Rudder</b>	<b>OPPOSITE Rotation</b>
<b>Elevator</b>	<b>FWD BRISKLY</b>
<b>Rotation</b>	<b>STOPPED</b>
<b>Controls</b>	<b>NUETRALIZE</b>
<b>Recover</b>	<b>SLOWLY</b>

### PA32-260 Performance (260hp)

<b>Fuel Capacity</b>	83.5 Gal Usable (17/25/25/17)
<b>Economy</b>	111kts 20"MP-2200rpm = 12 gph
<b>Normal</b>	122kts 21"MP-2300rpm = 13 gph
<b>Maximum</b>	133kts 23"MP-2400rpm = 14 gph
<b>Tire Pressure</b>	<b>30psi nose / 38psi mains</b>

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