

**PREFLIGHT INSPECTION**
**INTERIOR INSPECTION**

1. Hobbs / Tach Times .....RECORDED
2. Documents (AROW) .....CHECKED
3. Circuit Breakers .....CHECKED IN
4. Carb Heat .....OFF
5. All Electrical Switches .....OFF
6. Throttle/Mixture .....IDLE/CUTOFF
7. Ignition Switch .....OFF/KEY ON DASH
8. Master Switch .....ON
  - a. Fuel Quantity .....CHECKED
  - b. Lights / Pitot Ht .....CHECKED
  - c. Stall Warning .....CHECKED
9. Master Switch .....OFF
10. Fuel Selector Valve .....LOWEST TANK
11. Fire Ext/Safety Equip .....AS REQ
12. Empty Seats .....SEAT BELTS FASTENED
13. Windscreen .....CHECKED
14. Flaps .....EXTENDED

**EXTERIOR INSPECTION**

1. Right Wing
  - a. Flaps / Aileron .....CHECKED
  - b. Fuel Quantity .....VERIFIED
  - c. Fuel Sump .....DRAINED
  - d. Wing Vent .....CHECKED
  - e. Gear/Brakes .....CHECKED
  - f. Mount Strut (4.5") .....CHECKED
  - g. Tire Pressure .....CHECKED
2. Nose / Engine
  - a. Oil (6-8 QT) .....CHECKED
  - b. Engine Cowling .....SECURED
  - c. Prop / Spinner .....CHECKED
  - d. Alt Belt / Flywheel .....CHECKED
  - e. Tire Pressure .....CHECKED
  - f. Nose Strut (3.25") .....CHECKED
  - g. Air Inlets .....CLEAR
  - h. Brake Fluid .....CHECKED
  - i. Engine Cowling .....SECURED
  - j. Fuel Sump .....DRAINED
3. Left Wing .....PERFORM RIGHT WING
  - a. Pitot Mast .....CHECKED
4. Left Fuselage / Antennas .....CHECKED
5. Empennage Flight Surfaces .....CHECKED
6. Right Fuselage / Antennas .....CHECKED
7. Underbelly .....CHECKED
8. Baggage Compartment .....LOCKED

**BEFORE STARTING ENGINE**

1. Passenger Brief .....COMPLETE
2. Flaps .....RETRACTED/UP
3. Seats/Belts/Harnesses .....FASTENED
4. Anti Collision / Beacon Lt .....ON
5. Brakes .....HOLD

**STARTING ENGINE**

1. COLD START ONLY: Prime .....2 STROKES
2. Mixture .....FULL RICH
3. Master Switch .....ON
4. Fuel Pump .....ON / CHECK PRESSURE
5. Throttle .....PUMP 2X / OPEN ¼"
6. Propeller Area .....CLEAR
7. Ignition Switch .....START
8. Throttle .....1000 RPM
9. Oil Pressure .....CHECK
10. Mixture .....LEAN
11. Fuel Pump .....OFF

**BEFORE TAXI**

1. Radios/Avionics .....ON/SET
2. Transponder .....SET SQK / ALT MODE
3. Flight Instruments .....CHECKED
4. Nav/Taxi Lights .....ON
5. Brakes .....RELEASED

**TAXI**

1. Brakes .....CHECKED
2. Flight Instruments .....CHECKED

V SPEEDS (MPH)		PA28-140	PA28-151
<b>Stall, Flaps DOWN</b>	$V_{SO}$	55	
<b>Stall, Flaps UP</b>	$V_{S1}$	65	
<b>Rotation</b>	$V_R$	60	
<b>Best Angle</b>	$V_X$	75	
<b>Best Rate</b>	$V_Y$	85	
<b>Best Glide</b>	$V_G$	85	
<b>Max Flap Extend</b>	$V_{FE}$	115	125
<b>Maneuvering</b>	$V_A$	129	124
<b>Max Structural Cruise</b>	$V_{NO}$	140	
<b>Never Exceed</b>	$V_{NE}$	171	176
<b>Max Demo Crosswind (KTS)</b>		17 KT	

Source: PA28-141/151 POH & TCDS 2A13\_R63

# PIPER CHEROKEE

## PA-28-140 / 151

### RUN-UP

1. Flight Controls.....FREE / CORRECT
2. Fuel Selector .....SWITCH TANK
3. Primer .....IN AND LOCKED
4. Mixture .....FULL RICH
5. Throttle .....2000 RPM
  - a. Mags (175↓/50 Δ) .....CHECKED
  - b. Carb Heat .....CHECKED/OFF
  - c. Vacuum (4.9-5.1") ..... CHECKED
  - d. Ammeter .....CHECKED
  - e. Engine Instmts .....GREEN ARC
6. Throttle .....CHECK IDLE / 1000 RPM
7. Throttle Friction Lock .....SET
8. Mixture .....LEAN
9. Rados/Avionics/Nav .....SET
10. Departure/Crew Brief .....COMPLETED

*This will be a NORM/SHORT/SOFT FLD takeoff  
 Takeoff distance is \_\_\_ and our go/no-point is \_\_\_  
 We will rotate at \_\_\_ and climb at V<sub>x</sub>/V<sub>y</sub> of \_\_\_*

*For any malfunction prior to rotate announce  
 "ABORT 3X", reduce pwr to idle and stop ahead.  
 Engine failure blw 1000A- set V<sub>G</sub> and land ahead.  
 Engine failure abv 1000A- set V<sub>G</sub> and rtn to land.*

*(You/I) will fly the emergency as PIC.*

*We will depart (departure instructions).  
 (You/I) have the flight controls. Your questions.*

### BEFORE TAKEOFF (Holding Short of Rwy)

1. Door / Window .....SECURED
2. Transponder .....SET/ALT
3. Carb Heat .....OFF
4. Landing Light / Pitot Ht .....ON/AS REQ
5. Fuel Pump .....ON
6. Mixture ..... RICH
7. Primer .....IN / LOCKED
8. Flaps .....0 NORM // 25 SHORT/SOFT
9. Trim (Rudder/Elevator) .....SET
10. Instruments .....CHECKED

### TAKEOFF

1. Throttle .....FULL (3 SECONDS)
2. Engine Instruments .....CHECKED
3. V<sub>R</sub> / V<sub>X</sub> / V<sub>Y</sub> .....60 / 75 / 85 MPH

### CLIMB (>500' AGL)

1. Flaps .....UP
2. Instruments .....CHECKED
3. Fuel Pump .....OFF / CHECK PRESSURE

### CRUISE

1. Power .....SET (per AFM/POH)
2. Mixture .....LEAN
3. Engine Instruments .....CHECKED
4. Landing Light .....AS REQ

### PRE-MANEUVER

1. Clearing Turns .....COMPLETED
2. Fuel Pump .....ON
3. Gas .....FULLEST TANK
4. Mixture .....FULL RICH
5. Landing Light .....ON

### DESCENT

1. Fuel Selector Valve .....PROPER TANK
2. Power/Carb Heat .....AS REQ
3. Destination Info / WX .....RECEIVED
4. Approach Briefing .....COMPLETED
5. Instruments .....CHECKED

### BEFORE LANDING

1. Fuel Pump .....ON
2. Primer .....IN / LOCKED
3. Mixture .....FULL RICH
4. Landing Light .....ON
5. Seats/Belts/Harnesses .....FASTENED

### AFTER LANDING (Clear of Runway)

1. Flaps .....UP
2. Fuel Pump .....OFF
3. Carb Heat .....OFF
4. Mixture .....LEAN
5. Landing Light / Pitot Heat .....OFF

### ENGINE SHUTDOWN

1. Radios/Avionics .....OFF
2. Throttle .....1200 (10 sec) / 1000 RPM
3. Mixture .....IDLE CUTOFF
4. Ignition Switch .....OFF / KEY ON DASH
5. Master Switch .....OFF

### SECURING

1. Hobbs / Tach Times .....RECORDED
2. Cabin .....CLEAN
3. Gust Locks .....INSTALLED
4. Postflight Inspection .....COMPLETED
5. Covers/Plugs/Tie Downs .....INSTALLED
6. Aircraft Discreps ...RECORDED/NOTIFIED