

4138J (PA28-140) Checklist

Before Starting Engine

- Preflight inspection..... complete
- Flaps..... up
- Seats, belts, harnesses..... adjusted & locked
- Fuel selector..... lowest tank
- Avionics master switch, electrical equipment..... off
- Circuit breakers..... check-in
- Breaks..... hold
- Flight controls..... free & correct

Starting Engine

- Carburetor heat..... cold
- Mixture..... full rich
- Throttle..... open ½ inch
- Prime..... as required (4 times)
- Master switch..... on
- Beacon..... on
- Fuel Pump..... on (check pressure)
- Prop area..... clear orally
- Ignition switch..... start
- Throttle..... adjust 1,000 rpm
- Mixture..... lean for taxi
- Oil pressure..... check
- Fuel Pump..... off (check pressure)

Before Taxi

- Avionics master switch..... on
- JPI fuel information..... set
- A.T.I.S..... obtain then set GND
- Altimeter..... set
- Heading indicator..... set & note wind
- Transponder..... standby & set code
- Breaks..... check first 10 feet

PAO Radios

ATIS	135.275	Chevron	122.85
TOWER	118.60	Exxon	122.95
GND	125.00	PAFC	123.30

4138J (PA28-140) Checklist

Before Takeoff

- Parking Breaks..... set
- Doors and windows..... closed & latched
- Flight instruments..... set & checked
- Fuel selector..... fullest tank
- Elevator and rudder trim..... set for takeoff
- Mixture..... full rich
- Throttle..... 2,000 rpm
- Annunciator Panel..... check
- Suction gauge..... check
- AI & HI..... set
- Ammeter..... check
- Engine gauges..... check
- Carburetor heat..... check for RPM drop
- Magnetos..... check (125 max drop)
- Throttle..... 1,000 rpm
- Transponder..... set code, ALT, TEST
- Parking Breaks..... release
- Radios..... set

Final items

- Flaps..... as required
- Mixture..... full rich (below 3,000 ft)
- Fuel Pump..... on

After Takeoff

- Oil pressure..... check
- Fuel pump..... off (over 1,000 AGL)
- Fuel pressure..... check

Turn, Time, Twist, Throttle, Talk

	<i>RPM</i>	<i>IKTS</i>	<i>VSI</i>	<i>AI</i>
Climb	2550	80	500	7
Cruise	2350	90-100	0	0
Cruise Descend	1800-2000	90-100	-500	FB
App. Level	1900-2100	90	0	0
Prec. Ap.	1700-1900	90	-500	HB
Non-Prec. App.	1500-1700	90	-700	-5

Cylinder Temp : CRUISE/CLIMB/MAX = 435/475/500

4138J (PA28-140) Checklist

Before Landing

A.T.I.S..... obtain
Belts, harnesses (pilot and passengers)..... locked
Fuel pump..... on
Fuel selector..... fullest tank
Flaps..... up
Mixture..... full rich
CARB heat (only when old weather)..... on
Landing light..... on
Magnetos..... both
Prime..... locked
Normal Approach..... 65 KIAS
Short/Soft Field Approach..... 55 KIAS

After Landing

Flaps..... up
Carburetor heat..... off
Mixture..... leaner for taxi
Fuel pump..... off
Lights..... as required
Transponder..... off

Shutdown

Breaks..... hold
Avionics master, electrical equipment..... off
Mixture..... idle cut off
Ignition switch..... off
Master switch..... off
Cabin air..... close
Post flight inspection..... complete

Signal	Ground	In Flight
Steady Green	Cleared for Takeoff	Cleared to Land
Flashing Green	Cleared to Taxi	Ret. for Landing
Steady Red	STOP	Give way
Flashing Red	Taxi Clear of Rwy.	Airport Unsafe
Flashing White	Ret. to Starting Pt.	N/A
Alt. Red/Green	CAUTION	CAUTION

Speeds (KIAS) PA-28-140

V_r 64 V_{s1} 53 V_a 109 V_{glide} 74
V_x 64 V_{s0} 45 V_{no} 119
V_y 74 V_{fe} 97 V_{ne} 146

Cherokee 140 Emergency Procedures

Engine Failure during Takeoff

Throttle..... CLOSED
Breaks..... APPLY
Mixture..... IDLE CUT-OFF
Ignition switch..... OFF
Master switch..... OFF

Engine Failure Immediately after Takeoff

Airspeed..... SAFE AIRSPEED
Flaps..... UP
Mixture..... FULL RICH
CARB heat..... ON
Fuel pump..... ON
Fuel selector..... SWITCH TANKS

Engine Failure during Flight

Airspeed..... **74kts**
Mixture..... FULL RICH
CARB heat..... ON
Master switch..... ON
Fuel pump..... ON
Fuel selector..... SWITCH TANKS
Magnetos..... BOTH
Prime..... LOCKED
Ignition switch..... RESTART

Landing w/o Engine Power

Airspeed..... **74kts**
Transponder..... 7700
Radio..... MAYDAY on 121.5MHz
Mixture..... IDLE CUT-OFF
Master switch..... OFF
Magnetos..... OFF
Fuel selector..... OFF

Emergency Transponder Codes

7700..... Emergency
7600..... Radio Failure
7500..... Hijack

4138J Preflight Checklist (1/2)

Interior

Control lock..... remove
Magnetos..... off
Keys..... on dashboard
Mixture..... lean
Avionics master switch, electrical equipment..... off
Master battery switch..... on
Pitot heat..... on
Beacon..... strobe
Nav lights..... on
Landing light..... pulser
Fuel gages..... check

Exterior

Go outside

Beacon..... check
Nav light (right)..... check
Strobe light (right)..... check
Landing light..... check
Petot tube cover..... remove
Petot heat..... check
Nav light (left)..... check
Strobe light (left)..... check

Come back inside

Master switch..... off
Avionics switch, electrical equipment..... off
Flaps..... down

Right Wing

Go outside with fuel sampler

Flap..... check
Aileron..... check
Wing tip..... check
Leading edge..... check
Fuel level..... check
Fuel vent..... check
Fuel sump..... check
Gear/tire/brake..... check
Tie/chock..... release

4138J Preflight Checklist (2/2)

Nose

Windshield..... check clean
Engine/oil/belt..... check
Cowl (right)..... secure
Exhaust..... check
Spinner..... check
Propeller..... check
Air intake cover..... remove
Air intake..... check
Brake fluid..... check
Cowl (left)..... secure
Annunciator Panel..... check
Nose gear/strut/tire..... check
Fuel sump..... check
Chocks..... away

Left Wing

Fuel sump..... check
Gear/tire/brake..... check
Tie/chock..... release
Fuel vent..... check
Petot tube..... check
Leading edge..... check
Fuel level..... check
Wing tip..... check
Aileron..... check
Flap..... check
Fuselage..... check

Empenage

Stabilator..... check
Trim tab..... check
Vertical stabilizer..... check
Rudder..... check
Tie..... release
Fuselage..... check

4138J (PA28-140) Checklist

Before Approach

ATIS..... check
Altimeter..... set
App. Plate (how low, how long, which way)..... check
Avionics..... set
MKR & DME..... set
Airspeed..... check
HI & Compass..... in sync
Timer..... set
Pre-landing Check..... execute

Before Landing

Belts, harnesses (pilot and passengers)..... locked
Fuel pump..... on
Fuel selector..... fullest tank
Flaps..... up
Mixture..... full rich
CARB heat (only when old weather)..... on
Landing light..... on
Magnetos..... both
Prime..... locked

After Landing

Flaps..... up
Carburetor heat..... off
Mixture..... leaner for taxi
Fuel pump..... off
Lights..... as required
Transponder..... off

Shutdown

Breaks..... hold
Avionics master, electrical equipment..... off
Pitot heat..... off
Instrument lights..... off
Nav lights..... off
Beacon..... off
Landing light..... off
Fuel pump..... off
Mixture..... idle cut off
Ignition switch..... off
Master switch..... off
Cabin air..... close
Post flight inspection..... complete

Required Reports

1. Vacating assigned altitude
2. Altitude change — VFR on top
3. Unable climb/descend 500 FPM
4. Missed approach
5. Change TAS 5% or 10 knots
6. Time and altitude reaching holding fix
7. Leaving holding fix
8. Hazardous weather conditions
9. NAVAID malfunctions

Holding

Entry	Right Pattern		Left Pattern	
	begin	end	begin	end
Teardrop	OH - 70°	OH	OH+70°	OH
Parallel	OH	IH - 70°	OH	IH+70° °
Direct	IH - 70°	OH - 70°	IH+70°	OH+70° °

Light-gun Signals

Signal	Ground	In Flight
Steady Green	Cleared for Takeoff	Cleared to Land
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IFR Communication Failure

- Squawk **7600**
- VMC: maintain VFR, land as soon as practicable, notify ATC after landing

IMC:

- Route
 - **Assigned:** by route assigned in last ATCC
 - **Vectored:** go direct from point of radio failure to fix, route, airway in vector clearance
 - **Expected:** by route in EFC
 - **Filed:** flight plan route
- Altitude: highest of below **on each route segment**
 - **Minimum:** MEA
 - **Expected:** altitude ATC has advised to expect in the further clearance
 - **Assigned:** altitude assigned in the last ATCC
- Leave clearance limit
 - when limit is app. fix, commence descent or descent and approach at EFC time; if none, as close to EAT
 - when limit is not app. fix, leave limit fix at EFC time; if none, proceed to app. Fix and commence descent or descent and approach at estimated time as calculated from filed or amended ATCC
 - ATCC: ATC clearance
 - EFC: expected further clearance
 - EAT: estimated arrival time as calculated from as calculated from filed or amended ATCC
 - See FAR 91.185

4138J Postflight Checklist

Interior

Master switch..... check off
Flaps..... check up
Cabin air..... check closed
Air inlet..... check closed both sides
Control lock..... installed
Shoulder harness..... attached to wall
Seat belts..... buckled

Exterior

Airframe..... tied down
Air intake cover..... set
Pitot tube cover..... set
Chock..... set
Door..... locked
Canopy cover..... set