

N9592W (1967 PA28-140 Cherokee)



V Speeds

(MPH at Max Gross Weight: 2,150)

Vr: 60

Vx: 74

Vy: 85

Vso: 54

Vs: 64

Vno: 142

Vne: 178

Va: 131

Vfe: 115

Vg: 83

Max Demonstrated Crosswind: 17

Preflight Inspection (Cabin)

1. POH/Registration/Documents: CHECK
2. Hobbs/Tach: CHECK
3. Control Wheel Lock: REMOVE
4. Mags: OFF
5. Avionics: OFF
6. Circuit Breakers: IN
7. Trim: SET FOR TAKEOFF
8. Prop: Clear
9. Master Switch: ON
10. Fuel Gauges: True
11. Flaps: EXTEND
12. Lights: ON
13. Stall Indicator: TEST
14. Master Switch: OFF
15. Fuel Selector: CHECK EACH POSITION/SET TO EMPTIEST

Preflight Inspection (Right Wing)

1. Flaps/Hinges: CHECK
2. Aileron/Hinges CHECK
3. Navigation Light: CHECK
4. Tiedown: REMOVE
5. Surfaces: CHECK
6. Fuel Vent: CHECK
7. Fuel Quantity: CHECK
8. Fuel Cap: SECURE
9. Fuel Tank Sump: DRAIN
10. Chock: REMOVE
11. Tire: CHECK (24 PSI)
12. Brakes: CHECK
13. Main Strut: AROUND 4.5" EXTENSION

Preflight Inspection (Nose)

1. Right Engine Compartment: CHECK
2. Oil Level: 6-8 QTS
3. Right Engine Cowling: SECURE
4. Exhaust System: CHECK
5. Chock: REMOVE
6. Nose Strut: AROUND 3.25" EXTENSION
7. Nose Tire: CHECK (24 PSI)
8. Landing Light: CHECK
9. Engine Air Inlets: CHECK
10. Alternator Belt: CHECK
11. Prop/Spinner: CHECK
12. Left Engine Compartment: CHECK
13. Left Engine Cowling: SECURE
14. Fuel Strainer: DRAIN
15. Windshield: CHECK

Preflight Inspection (Left Wing)

1. Chock: REMOVE
2. Tire: CHECK (24 PSI)
3. Brakes: CHECK
4. Main Strut: AROUND 4.5" EXTENSION
5. Left Fuel Tank Sump: DRAIN
6. Fuel Vent: CHECK
7. Surfaces: CHECK
8. Tiedown: REMOVE
9. Pitot/Static Mast: CHECK
10. Fuel Quantity: CHECK
11. Fuel Cap: SECURE
12. Navigation Light: CHECK
13. Aileron/Hinges: CHECK
14. Flaps/Hinges: CHECK
15. Baggage Door: CLOSED/LOCKED

Preflight Inspection (Empennage)

1. Tie Down: REMOVE
2. Left Stabilator: CHECK SURFACE/MOVEMENT
3. Trim Tab: CHECK
4. Rudder: CHECK
5. Lights: CHECK
6. Antennas: CHECK
7. Right Stabilator: CHECK

Before Starting Engine

1. Passenger Brief:
 - a. PIC AUTHORITY
 - b. DOOR
 - c. SEATS/SEATBELTS
 - d. FRESH AIR
 - e. FIRE EXTINGUISHER
 - f. EMERGENCY EXIT
 - g. POSITIVE EXCHANGE OF FLIGHT CONTROLS
 - h. STERILE COCKPIT
 - i. QUESTIONS

Starting Engine

1. Seats/Seatbelts: SECURE
2. Brakes: CHECK PRESSURE/SET
3. Mixture: RICH
4. Prime: AS NECESSARY
5. Throttle: 1/8" OPEN
6. Carb Heat: OFF
7. Beacon Light: ON
8. Master Switch: ON
9. Fuel Pump: ON
10. Mags: BOTH
11. Starter: ENGAGE

Starting Engine When Hot

1. Throttle: 1/2" OPEN
2. Master Switch: ON
3. Fuel Pump: ON
4. Mixture: IDLE CUTOFF
5. Starter: ENGAGE
6. Mixture: ENRICH
7. Throttle: REDUCE

Starting When Flooded

1. Throttle: FULL OPEN
2. Fuel Pump: OFF
3. Mixture: IDLE CUTOFF
4. Starter: ENGAGE
5. Mixture: ENRICH
6. Throttle: REDUCE

When Engine Starts

1. Throttle: 1,000 RPM
2. Oil Pressure: CHECK
3. Fuel Pump: OFF
4. Mixture: LEAN

After Start Checklist

1. Flaps: UP
2. Lights: ON AS REQUIRED
3. Avionics: ON/SET
4. AWOS/ATIS: OBTAIN
5. Altimeter: SET
6. Transponder: SET
7. Heading Indicator: SET TO COMPASS
8. Attitude Indicator: SET
9. Fuel Selector: SWITCH TO FULLEST TANK

Taxi Checklist

1. Clearance: IFR/TAXI
2. Airport Diagram: AVAILABLE
3. Taxi Route: BRIEF
4. Taxi Area: CLEAR
5. Flight Controls: POSITION FOR WIND
6. Brakes: TEST
7. Flight Instruments: TAXI CHECKS

Run Up Checklist

1. Brakes: SET
2. Flight Controls: FREE/CORRECT
3. Mixture: BEST POWER
4. Primer: IN/LOCKED
5. Throttle: 1,700 RPM
6. Mags: RIGHT/LEFT (175/50)
7. Carb Heat: TEST
8. Vacuum: CHECK
9. Ammeter: CHECK
10. Oil Pressure: CHECK
11. Oil Temperature: CHECK
12. Idle Check: COMPLETE
13. Flaps: AS DESIRED

Before Takeoff Checklist

1. Type of Takeoff: BRIEF

2. Takeoff Briefing:

- a. _____ PIC
- b. _____ RUNWAY NUMBER
- c. _____ RUNWAY DISTANCE
- d. _____ TAKEOFF DISTANCE
- e. _____ DEPARTURE BRIEF

3. Engine Failure

a. Takeoff Roll

- i. Power: _____ IDLE
- ii. Flaps: _____ RETRACT
- iii. Directional Control: _____ MAINTAIN
- iv. Brake: _____ AS REQUIRED

b. Below 1,000 ft AGL

- i. Airspeed: _____ 83
- ii. Mixture: _____ IDLE CUTOFF
- iii. Mags: _____ OFF
- iv. Master Switch: _____ OFF
- v. Fuel Selector: _____ OFF

c. Above 1,000 ft AGL

- i. Airspeed: _____ 83
- ii. Mixture: _____ IDLE CUTOFF
- iii. Mags: _____ OFF
- iv. Master Switch: _____ OFF
- v. Fuel Selector: _____ OFF
- vi. Land: _____ BACK ON AIRPORT/ BEST PLACE

Takeoff Checklist

1. Doors/Windows: CLOSED/LOCKED
2. Fuel Selector: ON FULLEST TANK
3. Lights: AS REQUIRED
4. Fuel Pump: ON
5. Heading Indicator: SET
6. Transponder: CHECK
7. Mixture: RICH
8. Carb Heat: OFF

Climb Checklist

1. Flaps: UP
2. Engine Gauges: CHECK
3. Airspeed: 85-100
4. Landing Light: AS REQUIRED
5. Mixture: RICH BELOW 3,000 FT

Cruise Checklist

1. Power: 2,200-2,500 RPM
2. Trim: ADJUST
3. Fuel Pump: OFF
4. Mixture: LEAN AS NECESSARY
5. Engine Gauges: CHECK
6. Heading Indicator: SET
7. Fuel Selector: AS NECESSARY
8. Landing Light: AS NECESSARY

Pre-Maneuver Checklist (IP3Cs)

1. Instruments: CHECK
2. Position: EMERGENCY LANDING LOCATION
3. Clearing Turns: EXECUTE
4. Call: COMPLETE
5. Configure
 - a. Fuel Selector: AS REQUIRED
 - b. Mixture: AS REQUIRED
 - c. Lights: AS REQUIRED

In Range Checklist

1. ATIS/AWOS: OBTAIN
2. Altimeter: SET
3. Clearance: AS REQUIRED
4. Approach Brief: COMPLETE
5. Radios/NAV/GPS/CDI/Heading Indicator SET
6. Lights: AS REQUIRED

Descent Checklist

1. Fuel Selector: AS REQUIRED
2. Mixture: AS REQUIRED
3. Power: AS DESIRED
4. Carburetor Heat: AS REQUIRED

Before Landing Checklist

1. Seats/Seatbelts: SECURED/FASTENED
2. Fuel Selector: FULLEST TANK
3. Brake Pressure: CHECK
4. Fuel Pump: ON
5. Mixture: RICH
6. Carburetor Heat: ON (FULL HEAT BEFORE REDUCING POWER)

Go Around

1. Throttle: FULL
2. Carburetor Heat: OFF
3. Flaps: RETRACT to 25° (immediately)
4. Airspeed: 74
5. Flaps: RETRACT to 10° (until obstacles are cleared)
6. Airspeed: 85
7. Flaps: RETRACT to 0° (at safe altitude)

After Landing Checklist

1. Wing Flaps: UP
2. Carburetor Heat: OFF
3. Fuel Pump: OFF
4. Throttle: 1,000 RPM
5. Mixture: LEAN AS REQUIRED
6. Trim: SET FOR TAKEOFF
7. Transponder: 1200
8. Lights: AS REQUIRED
9. Taxi Route: BRIEF

Engine Shutdown

1. Flaps: RETRACT
2. Fuel Pump: OFF
3. Avionics Master Switch: OFF
4. Throttle: FULL CLOSED
5. Mixture: IDLE CUTOFF
6. Mags: OFF
7. Master Switch: OFF

Emergency Procedures

Engine Fire (During Start)

1. Starter: ENGAGE
2. Mixture: IDLE CUTOFF
3. Throttle: OPEN
4. Fuel Pump: OFF
5. Fuel Selector: OFF

If Fire Continues, EVACUATE

Engine Fire In Flight

1. Fuel Selector: OFF
2. Throttle: FULL CLOSED
3. Mixture: IDLE CUTOFF
4. Fuel Pump: OFF
5. Heater: OFF
6. Defroster: OFF

Proceed to Emergency Landing Without Engine Power Checklist.

Electrical Fire in Flight (Smoke in the Cabin)

1. Master Switch: OFF
2. Vents: OPEN
3. Cabin Heat: OFF

Declare Emergency.

Land as soon as practical.

Wing Fire in Flight

1. Nav Lights: OFF
 2. Pitot Heat: OFF
 3. Strobe Lights: OFF
- Perform sideslip to keep flames away from the fuel tanks and the cabin.
 - Land as soon as possible.

Engine Failure During Flight

Don't Attempt Below 1,000 ft AGL

1. Airspeed: 83 MPH
2. Best Place to Land: IDENTIFY
3. Fuel Selector: SWITCH TO TANK WITH FUEL
4. Fuel Pump: ON
5. Mixture: FULL RICH
6. Carb Heat: ON
7. Primer: IN/LOCKED
8. Starter: ENGAGE IF PROPELLER HAS STOPPED SPINNING
9. Declare Emergency: 121.5/7700

Proceed to Emergency Landing Without Engine Power
Checklist

Emergency Landing Without Engine Power

1. Airspeed: 83 MPH
2. Mags: OFF
3. Master Switch: OFF
4. Fuel Selector: OFF
5. Mixture: IDLE CUTOFF
6. Seat Belts: SECURE
7. Door: UNLATCH PRIOR TO TOUCHDOWN

Loss of Oil Pressure

1. Land as soon as possible.
2. Prepare For Emergency Landing Without Engine Power

Loss of Fuel Pressure

1. Fuel Pump: ON
2. Fuel Selector: ON FULLEST TANK/CHECK OTHER IF NEEDED

High Carbon Monoxide Level

1. Cabin Heat: OFF
2. Cabin Air: ON
3. Cabin Vents: OPEN
4. Window: OPEN

Land as soon as practical.

Alternator Failure

1. Electrical Load: REDUCE
2. Alternator Circuit Breakers: CHECK

Land as soon as practical

Open Door

1. Airspeed: SLOW TO 100 MPH
2. Cabin Vents: CLOSE
3. Storm Window: OPEN
4. If Upper Latch is Open: LATCH
5. If Side Latch is Open: PULL ON ARMREST WHILE MOVING
LATCH HANDLE TO LATCHED POSITION
6. If Both Latches are Open: LATCH SIDE LATCH, THEN TOP
LATCH

Engine Roughness

1. Carb Heat: ON

If Roughness Continues After 1 Minute

2. Carb Heat: OFF
3. Mixture: ADJUST FOR MAX SMOOTHNESS
4. Fuel Pump: ON
5. Fuel Selector: SWITCH TANKS
6. Engine Gauges: CHECK
7. Mags: L/R/BOTH

If operation is better on either one, continue on that magneto at reduced power and full rich mixture to the nearest airport.

Prepare for Emergency Landing Without Engine Power.

