

-CHECKLIST-

Piper Cherokee

PA28-180 D



Inspire
Aviation

This Checklist is abbreviated, See POH for Complete Procedure. Inspire Aviation, Owners, Associates and creators of this checklist accept no liability or responsibility for actions or occurrences resulting from its use or misuse. USE AT YOUR OWN RISK

>>DO NOT REMOVE FROM AIRCRAFT<<

Pre-Flight

CABIN

Required Maintenance Documents COMPLETE
Master Switch AROW
Master Switch OFF
Magnetos OFF
Master Switch ON
Fuel Quantity Indicators ALIVE
Fuel Selector PROPER TANK
Trim SET FOR TAKEOFF
Flaps DOWN
Stall Warning Light TEST
Lights and Pitot Heat CHECK
Master Switch OFF

RIGHT WING

Right Flap CHECK
Right Aileron CHECK
Tip and Leading Edge CHECK
Right Wing Tie Down REMOVE
Main Tires and Brakes CHECK
Fuel Vent CLEAR
Right Tank SUMP
Right Fuel Tank/Cap CHECK

ENGINE AND COWLING

Oil Quantity CHECK 6 Qts. Min.
Access Doors CLOSE
Prop and Spinner CHECK
Air Inlet CLEAR
Alternator Belt CHECK
Nose Tire/Well and Strut CHECK
Fuel Strainer SAMPLE Left Side

LEFT WING

Leading edge CHECK
Main Tires/Brakes CHECK
Left Wing Tie Down REMOVE
Left Tank Sump SAMPLE
Fuel Vent CLEAR
Left Fuel Tank Cap CHECK

(Continued on Next Column).....

Pre-Flight (Cont)

Pitot Tube/Static Port CLEAR
Wingtip CHECK
Left Aileron FREE and SECURE
Left Flap CHECK EMPENNAGE

Empennage/Antennas

CHECK Stabilator FREE & SECURE
Trim Tab SECURE
Rudder FREE and SECURE
Baggage Door. CLOSED & LOCKED

Pre-Start

Preflight COMPLETE
Passenger Briefing COMPLETE
Seat Belts SECURE
Cabin Doors. CLOSED and LOCKED
Fuel Selector PROPER TANK

Engine Start

Brakes SET
Carb Heat COLD
Fuel FULLEST TANK
Throttle OPEN 1/4 INCH
Beacon ON
Master Switch ON
Fuel Pump ON
Mixture FULL RICH
Propeller Area CLEAR
Ignition Switch START
Throttle 1000 RPM or LESS
Oil Pressure CHECK IN GREEN
(If no Start after 5-10 sec. STOP. Use
3-4 strokes of primer & repeat)

After Start

Avionics ON
Lights ON AS REQUIRED
Circuit Breakers CHECK IN
FLOW CHECK
Weather CHECK
Radios SET
GPS SET
Engine Guages Check
Transponder ALT

Taxi

Brakes.....TEST
Mixture..... **LEAN FOR TAXI**
Flight InstrumentsCheck
Checklist Down EYES OUT

Run-Up

Nose Wheel.....Straight
Brakes.....SET
Flight Controls..Free & CORRECT
Fuel Selector..... PROPER TANK
Mixture..... RICH
Throttle.....1800 RPM
MagnetosCHECK(125/50)
Carburetor HeatCHECK
Ammeter.....CHECK
Circuit Breakers CHECKED
Throttle.....IDLE CHECK
Throttle.....1000 RPM
Departure Brief REVIEW

Before Takeoff

Doors and Windows LOCKED
Fuel Quantity..... PROPER TANK
Taxi/Landing/Strobes ON
Mixture..... RICH
Fuel Pump ON
Flaps SET AS APPROPRIATE
Flight InstrumentsSET
Radios/Navigation/GPSSET
Transponder.....SET(1200VFR)
Trim SLGT AFT OF NEUTRAL
Flight Plan..... OPEN

Normal Takeoff

Flaps 0°
Trim SLGT AFT OF NEUTRAL
Throttle..... FULL OPEN
Rotate 60 MPH
Climb Vy 85 MPH

Enroute Climb

Airspeed 100 MPH
Throttle..... FULL OPEN
Mixture..... RICH UNDER 5K

Cruise

Power 2400-2500 RPM
TrimSET
Mixture..... RICH UNDER 5K

Descent

Fuel Selector..... PROPER TANK
Power AS REQUIRED
Mixture..... ENRICH
Fuel Pump ON
Altimeter.....SET

Before Landing

Seats and Seat Belt..... SECURED
Mixture..... RICH
Ladder Speeds ... 100/90/80 MPH
Airspeed "Fence"..... 70 MPH
Flaps AS REQUIRED
Touchdown MAINS FIRST
Nose Wheel LOWER GENTLY
Brakes..... AS REQUIRED

Go Around

Throttle..... FULL IN
Airspeed 85MPH
Flaps RETRACT SLOWLY

After Landing

FlapsUP
Fuel Pump OFF
Mixture..... **LEAN FOR TAXI**
Trim SET FOR TAKEOFF
Transponder..... ALT(1200VFR)
Landing/Strobes LightOFF
Flight Plan.....CLOSED

Shutdown

ELT..... MONITOR 121.50
Avionics OFF
Throttle.....1000 RPM
Mixture.....IDLE CUTOFF
All Lights OFF
MagnetosOFF
Master Switch OFF

**CLEAN WINSHILED &
LEADING EDGES**

Short Field Takeoff

Flaps.....25°
 Brakes.....APPLY
 Throttle..... FULL OPEN
 Brakes.....RELEASE
 Rotate..... 60 MPH
 Climb Vx..... 74 MPH
 Obstacle..... CLEAR
 Flaps RETRACT SLOWLY
 Climb Vy.....85 MPH

Short Field Landing

Flaps 40°
 Airspeed 70 MPH
 Power..... AS REQUIRED
 Touchdown. MAIN WHEELS FIRST

Soft Field Takeoff

Flaps 25°
 Brakes..... DO NOT USE
 Throttle..... FULL OPEN
 Elevator Control TAIL LOW
 Rotate..... 50/60 MPH
 Elevator..STAY IN GROUND EFFECT
 Climb Vx Airspeed 74 MPH
 Obstacle..... CLEAR
 Flaps RETRACT SLOWLY
 Climb Vy..... 85 MPH

Soft Field Landing

Flaps 40°
 Airspeed 80 MPH
 Touchdown. MAIN WHEELS FIRST
 Nose Wheel..... KEEP OFF
 Brakes..... ONLY AS REQUIRED

Airspeeds

Vg 85
 Vr..... 60
 Vs0..... 57
 Vs1..... 67
 Vx 74
 Vy 85
 Vfe 115
 Va (max gross) 129
 Vno 140
 Vne 171

Radio Frequencies

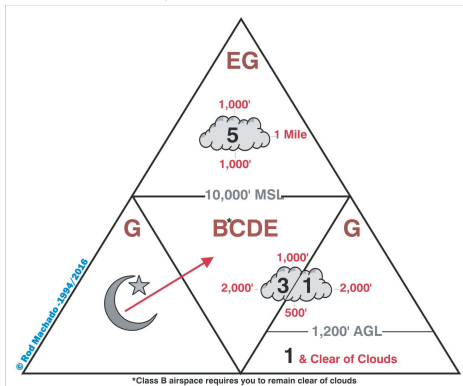
KDWH ATIS 128.37
 KDWH GROUND 121.80
 KDWH TOWER 118.40
 TNV VOR..... 115.90
 EMERGENCY 121.50

Squawks

Emergency..... 7700
 Lost Communication..... 7600
 VFR 1200

Phone Numbers

Gill Aviation 281-376-5436
 Inspire Aviation..... 713-487-6795
 Flight Service 1-800-992-7433



Engine Failure Takeoff Roll

Throttle..... IDLE
Brakes..... APPLY
Elevator.. AERODYNAMIC BRAKE

Engine failure: after Takeoff

Airspeed 85MPH
Landing Site LOCATE
Fuel Pump ON
Mixture..... FULL RICH
Fuel Selector..... SWITCH TANK
Carburetor Heat ON
Primer.....CHECK LOCKED
Ignition Switch..... BOTH

Engine Failure Enroute

Airspeed 85MPH
Landing Site LOCATE
Fuel Pump ON
Mixture..... FULL RICH
Fuel Selector..... SWITCH TANK
Carburetor Heat ON
Primer.....CHECK LOCKED
Ignition Switch..... BOTH

Forced Landing

Airspeed 85MPH
Declare Emerg 121.50 MAYDAY
Squawk..... 7700
Mixture.....IDLE CUTOFF
Fuel Selector..... OFF
Fuel Pump OFF
Ignition Switch..... OFF
Master Switch OFF
Seats & Seatbelts.... UPRIGHT & TIGHT
Flaps AS REQUIRED
Door..... UNLATCH

Ammeter Insufficient Charge

Avionics.....OFF
Circuit BreakersCHECK
Alternator SwitchOFF 1Sec
Master Switch..... ON

Low Volt or Discharge Indicated

Nonessential Electrical Equip..... OFF
Land..... AS SOON AS PRACTICAL.

NO Low Volt or Discharge Indicated

Avionics... ON.

Excessive Charge

Nonessential Electrical Equip OFF
Land.....AS SOON AS PRACTICAL

Engine Roughness

Carburetor..... Heat ON
>>>>Roughness Continues
Carburetor Heat OFF
Mixture..... FULL RICH
Fuel Pump ON
Fuel Selector..... SWITCH TANKS
Engine GaugesCHECK
Magnetos Switch
..... "L" then "R" then "BOTH"

Emergency Descent

Mixture..... FULL RICH
Throttle..... IDLE
Airspeed
..... DESCEND AT 80-135MPH

EVERY EMERGENCY

A **Airspeed**
B **Best Area to Land**
C **Checklist**
D **Declare/Dialouge**
E **Execute(DO IT)**

Cabin/Electrical Fire

Master Switch..... OFF
 Cabin Heat..... OFF
 Air Vents OPEN
 Fire Extinguisher..... ACTIVATE
 P..... PULL PIN
 A..... AIM at FIRE
 S SQUEEZE TRIGGER
 S SWEEP SIDE to SIDE
 Land..... AS SOON AS PRACTICAL

Wing Fire

Pitot Heat Switch..... OFF
 Navigation Light Switch OFF
 Strobes OFF
 Emergency Descent..... 121 MPH
 >>**EXECUTE FORCE LANDING**<<

Communication failure

Frequency.....CHECK
 Volume/Squelch.....CHECK
 SwitchesCHECK
 Headset JacksCHECK
 Circuit BreakersCHECK
 Other Radio IF AVAILABLE
 NAVAIID Frequency MONITOR
 Squawk 7600
 Tower Light Signals OBSERVE

ENGINE FIRE

While Starting

Cranking CONTINUE
 Throttle..... FULL OPEN
 Mixture..... IDLE CUTOFF
 Master Switch..... OFF
 Ignition Switch..... OFF
 Fuel Selector..... OFF

>>**EVACUATE AIRCRAFT**<<

Engine Fire: Enroute

Magneto Switch OFF
 Throttle..... CLOSED
 Mixture..... IDLE CUTOFF
 Fuel Selector..... OFF
 Fuel Pump OFF
 Master Switch..... OFF
 EMERGENCY DESCENT 76MPH

>>**EXECUTE FORCE LANDING**<<

EVERY EMERGENCY

- A** **Airspeed**
- B** **Best Area to Land**
- C** **Checklist**
- D** **Declare/Dialouge**
- E** **Execute(DO IT)**

Color and Type of Signal	Movement of Vehicles, Equipment and Personnel	Aircraft on the Ground	Aircraft in Flight
Steady green 	Cleared to cross, proceed or go	Cleared for takeoff	Cleared to land
Flashing green 	Not applicable	Cleared for taxi	Return for landing (to be followed by steady green at the proper time)
Steady red 	Stop	Stop	Give way to other aircraft and continue circling
Flashing red 	Clear the taxiway/runway	Taxi clear of the runway in use	Airport unsafe, do not land
Flashing white 	Return to starting point on airport	Return to starting point on airport	Not applicable
Alternating red and green 	Exercise extreme caution!!!!	Exercise extreme caution!!!!	Exercise extreme caution!!!!