

N6079W

1964 Piper Pa 28-140

Checklist



MSN: 28-20092

Prepared by the worldwide aviation specialists at RidgeAir, Inc.

Preflight Inspection

Cockpit

Parking Brake	Set
Hobbs/Tach	Check
Master Switch	On
Fuel Quantity	Check
Lights/Stall Warning	Check
Electrical Equipment	Off
Master Switch	Off
Flaps	Down/Up
Trim	Check
Acft Documents	On Board

Nose

Engine Condition	Check
Oil Quantity	Check
Propeller & Spinner	Check
Alternator Belt	Check
Air Inlets	Clear
Landing Light	Check
Nose Gear & Tire	Check
Engine Condition (L)	Check
Fuel Strainer	Sample

Left Wing

Flap Hinges	Check
Aileron	Check Hinges
Wingtip/Lights	Check
Leading Edge	Clear
Stall Warning Light	Check
Fuel Quantity	Check
Fuel Vent	Clear
Fuel Strainer	Sample
Pitot/Static Mast	Check
Landing Gear/Tire	Check
Air Inlet	Clear

Right Wing

Same as Left Wing (in reverse)
except no pitot / static mast and
stall warning light

Fuselage and Empenage

Antennas	Check
Air Inlet	Check
Stabilator & Trim	Check
Rudder	Check

Before Start

Parking Brake	Set
Seats/Seat Belts	Fastened
Circuit Breakers	Check
Mixture	Rich
Carburetor Heat	Cold/Off
Throttle	1/4" Open
Prime	As Required
Fuel Selector	Lowest Tank
Master Switch	On

Engine Start

Electric Fuel Pump	On
Magneto	Left
Prop Area	Clear!
Starter	Engage
Throttle	1000 -1200 RPM
Magnetos	Both
Oil Press.	:30/Warm :60/Cold
Engine Instruments	Check
Electric Fuel Pump	Off

After Start

Avionics	On
Lights As Required	On
Radios	Set
Transponder	Standby
Circuit Breakers	In
Mixture	Leaned for Taxi
Fuel Pump	Off
Parking Brake	Released

Before Run Up

Flight Controls	Set
Flight Instruments	Check
Radios	Set
Flaps	Check & Set
Trim	Set
Takeoff Briefing	Complete
Door & Window	Secured

Run Up

Brakes	Set
Fuel Pump	On
Fuel Selector	Opposite Tank
Mixture	As Required
Throttle	2000 RPM
Carb Heat	Check
Magnetos	Check
(max drop 175RPM / max diff. 50 RPM)	
Engine Gauges	In Limits
Vacuum	(4.5-5.2) Check
Ammeter	Check
Throttle	1000 RPM
Parking Brake	Released

Mixture	Set
Transponder	Altitude
Landing Light	On
Electric Fuel Pump	On
Clock	Noted

V-Speeds (MPH)

Vr	55-60	Va	129
Vx	74	Vfe	115
Vy	85	Vno	140
Climb	100	Vne	171
Vs1	63	Glide (gross)	83
Vso	54	Max dem XW	11
Approach F/UP		85	
Approach F/DN		76	

After Takeoff

1000 AGL Minimum	
Electric Fuel Pump	Off

Cruise

Pitch	Set
Throttle	As required
Trim	Set
Mixture	Adjust

Approach

Flight Instruments	Ckd & Set
Radios	Set / Chk ATIS
Carburetor Heat	As Required
Electric Fuel Pump	On
Mixture	Rich / As Required
Fuel Selector	Fullest Tank
Approach Briefing	Complete
Seat Belts	Fastened

After Landing

Flaps	Up
Mixture	Leaned
Transponder	Standby
Landing Light	Off
Electric Fuel Pump	Off

Parking

Avionics	Off
Electrical Equipment	Off
Throttle	900 RPM
Magnetos	Check Off/On
Throttle	1200 RPM
Mixture	Cut-Off
Master Switch	Off

Securing the Aircraft

Hobbs/Tach	Record
Flight Controls	Secure
Door & Window	Secure
Tie-Downs	Secure
MASTER SWITCH	CHECK OFF

Engine Failure	
Altitude Sufficient For Restart?	
No	
Glide	Establish
Landing Site	Select
Mixture	Cut-Off
Master Switch	Off
Magnetos	Off
Fuel Selector	Off

Loss of Fuel Pressure	
Electric Fuel Pump	On
Fuel Selector	Opposite Tank

Flooded Engine Start	
Throttle	Full Forward
Master Switch	On
Electric Fuel Pump	Off
Mixture	Cut-Off
Starter	Engage
Mixture (when engine fires)	Full Rich
Throttle	1000 RPM
Oil Pressure	Check

Hot Engine Start	
Throttle	1/2" Open
Master Switch	On
Electric Fuel Pump	On
Mixture	Full Rich
Starter	Engage
Throttle	1000 RPM
Oil Pressure	Check

Engine Roughness	
Carb Heat	On
If roughness continues after one minute:	
Carb Heat	Cut-Off
Mixture	Adjust
Electric Fuel Pump	On
Fuel Selector	Opposite Tank
Engine Instruments	Check
Magnetos	Check
If operation on either mag- neto is satisfactory, con- tinue on that magento at reduced power with mixture full rich. Land as soon as practical.	

Yes	
Glide	Establish
Landing Site	Select
Electric Fuel Pump	On
Mixture	Full Rich
Fuel Selector	Fullest Tank
Carb Heat	On
Throttle	Set
Primer	Locked
Magnetos	Check
Engine Restarted?	
No	

Mayday	Transmit 121.5
Mixture	Cut-Off
Master Switch	Off
Magnetos	Off
Fuel Selector	Off

Engine Fire During Start	
Starter	Engage
Mixture	Cut-Off
Throttle	1800 RPM
Electric Fuel Pump	Off
Fuel Selector	Off
Evacuate if fire continues	

Engine Fire During Taxi	
Airplane	Stop
Mixture	Cut-Off
Fuel Selector	Off
Master Switch	Off
Evacuate Aircraft	

Engine Fire In Flight	
Mixture	Cut-Off
Fuel Selector	Off
Glide	Establish
Landing Site	Select
Mayday	Transmit 121.5
Magnetos	Off
Master Switch	Off

Cabin Fire In Flight	
Master Switch	Off
Electrical Equipment	Off
Vents	Open

Carburetor Icing	
Carb Heat	On
Mixture	Adjust

Spin Recovery	
Throttle	Idle
Ailerons	Neutral
Rudder	Opposite dir of rotation
Control Wheel	Full Forward
Rudder and Control Wheel	Neutral when rotation stops.
Pitch	Level

Yes
Leave fuel selector on present tank. Land as soon as possible.

Loss of Oil Pressure / High Oil Temperature	
Land as soon as practical. Prepare for imminent engine failure.	

Electrical Failure	
Load Meter	Verify Inop
If load meter indicates zero	
Alternator	Off
Reduce electrical load to min	
Alternator Fld	Check
Circuit Breaker	& Reset
Alternator	On
If power is not restored	
Alternator	Off
Reduce electrical loads to a minimum, land as soon as practical.	

Electrical Overload	
Alternator	Off
Battery	On
If alternator loads are reduced, reduce electrical loads to a minimum, land as soon as practical. Otherwise:	
Alternator	Off
Battery	As Required
Leave battery on only if needed to power essential electrical equipment. Land as soon as practical.	

PA-28-140 CHECKLIST

BVX UNICOM 122.8
AWOS 126.375

CHEROKEE PA-28-140 N6079W

PREFLIGHT

Cabin

Control Lock	Removed I/A
Flaps	Extend
Throttle	Closed
Mixture	Closed
Radio Master	Off
Ignition Switch	Off
Master Switch	On
Fuel Quantity	CHK
Beacon	On/CHK
Master Switch	Off

Right Wing

Flaps	CHK
Control Surfaces	CHK
Wing Tip	CHK
Fuel Drain/Vent	CHK
Fuel Quantity/Cap	CHK
Main Gear/Strut	CHK
Tie Down/Chock	Remove I/A

NOSE

Windshield	CHK
Oil Quantity	6-8 Quarts
Prop/Spinner	CHK
Air Intake Filter	CHK
Tire/Strut	CHK
Engine Cowling	CHK
Brake Fluid	CHK
Fuel Drain	Sampled

Left Wing

Cabin Air Intake	CHK
Main Gear/Strut	CHK
Fuel Drain/Vent	Sample
Fuel Quantity/Cap	CHK
Tie Down/Chock	Remove I/A
Pitot Static	CHK
Stall Warning	CHK
Wing Tip/Surfaces	CHK
Flaps	CHK

Empennage

Antennas	CHK
Beacon	CHK
Control Surfaces	CHK
Tie Down	Remove

PRESTART

Seats/Belts Harness	FSTN /ADJ
Parking Brake	Set
Circuit Breakers	In
Radio Master	Off
Electrical Equipment	Off

START

Key	Ready
Fuel Selector	L or R Tank
Carb Heat	Off
Prim As Needed	3—5 STKS
Master Switch	On
Fuel Pump/Pressure	On
Beacon	On
Mixture	Rich
Throttle	Open 7/8"
Prop	Clear
Start	
Throttle	1000 RPM
Oil Pressure	CHK
Fuel Pump	Off

PRE TAXI

Radio Master	On
Radios	Set
BVX Unicom	122.8
BVX ATIS	126.37
Altimeter	Set
Heading Indicator	Set off Mag Compass
Attitude Indicator	CHK
GPS	On
Flaps	Up
Navigation Lights	As Needed
Landing Lights	As Needed
Make Radio Call	
Taxi	
Brakes	CHK
Turn Coordinator	CHK

ENGINE RUN—UP

Parking Brake	Set
Controls	Free/Correct
Fuel Selector	Fulllest Tank
Mixture	Full Rich
Throttle	2000 RPM
Oil Pressure	CHK
Vacuum/Suction	CHK 5.0 Pounds
Carb Heat	CHK
Left Mag	CHK
Right Mag	CHK
AMP Meter	CHK
Throttle	1000 RPM

BEFORE TAKEOFF

Trim	Set
Carb Heat	Off
Fuel Pump	On
Mixture	Full Rich
Primer	In—Locked
Flaps	Set
Radio	Set
Transponder	Set
Attitude IND	Set
Heading IND	Set off Mag Compass
Altimeter	Set
Transponder	ALT
Check Traffic	Clear
Radio Call	CHK

TAKEOFF

Power	Full
Rotate	70 MPH
Climb	85 MPH—10*
Vr—60 MPH	
Vx—74 MPH	
Vy—85 MPH	

CRUISE

Power	Set
Fuel Pump	Off

Vso Stall @ 52MPH full flaps
Vs1 Stall @ 61 MPH flaps retracted

CHEROKEE PA28-140 N6079W

LANDING

Weather	CHK
Radio Intentions	CHK
Carb Heat	As Required
Mixture	Rich
Fuel Pump	On
Landing Light	On
Flaps	As Required

SHORT FIELD TAKEOFF OVER OBSTACLE

Lower Flaps	25*
Accelerate	55-60 MPH
Rotate	
Accelerate	Vx 74 MPH
Slowly Retract Flaps	
Obstacle Clearance	Vy 85 MPH

SOFT FIELD TAKEOFF OVER OBSTACLE

Lower Flaps	25*
Apply Brakes	Full Power
Accelerate	
Lift Nose Gear	ASAP
Once off fly wind affect to	Vx 74 MPH
Once Obstacle clear pitch	Vy 85 MPH
Slowly Retract Flaps.	

AFTER LANDING

Flaps	Up
Fuel Pump	Off
Transponder	Standby
Landing Light	As Required
Radio Call	When Clear of Active runway

SHORTFIELD TAKEOF NO OBSTACLE

Lower Flaps	25*
Accelerate	55 - 60 MPH
Rotate	
Accelerate	Vx 85 MPH
Slowly Retract Flaps	

SOFT FIELD TAKEOFF NO OBSTACLE

Lower Flaps	25*
Apply Brakes	Full Power
Lift Nose Gear	ASAP
Once off fly wind affect to	Vy 85 MPH
Slowly Retract Flaps	

SHUT DOWN

Brakes	Set
Throttle	1000 RPM
Radio	Off
Electrical Equip	Off
Mixture	Full Lean
Master Switch	Off
Ignition	Off
Key	Hang Up
Controls	Locked
Time	Logged
Headset	Stored
Doors	Closed
Wheels	Chocked

Light Gun Signals

Color and Type of Signal

STEADY GREEN

FLASHING GREEN

STEADY RED

FLASHING RED

FLASHING WHITE

ALTERNATING RED/GREEN

Elevated
Guard Lights
Hold Short

Aircraft on the Ground

Cleared for Takeoff

Cleared to Taxi

STOP

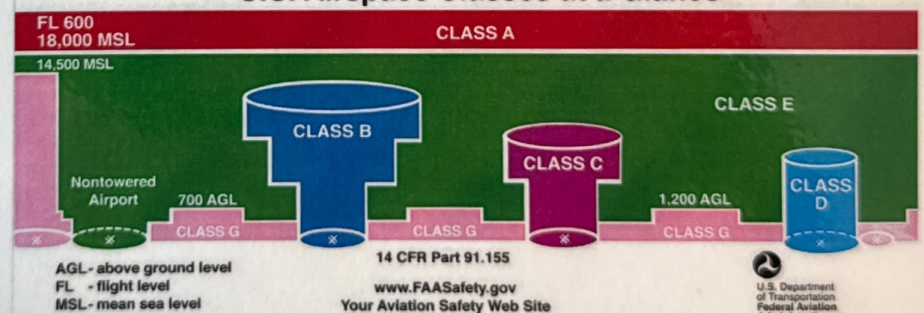
Taxi Clear of the Runway in Use

Return to Starting Point on Airport

Exercise Extreme Caution

In-Pavement
Guard Lights
Hold Short

U.S. Airspace Classes at a Glance



Airspace Class	Entry Requirement	Pilot Certificate or Rating	Two-Way Communication	Altitude Decoding Transponder	VFR Min. Visibility Below 10,000 MSL	VFR Min. Visibility 10,000 MSL and Above	VFR Cloud Clearance Below 10,000 MSL	VFR Cloud Clearance 10,000 MSL and Above
A	ATC Clearance	Instrument	Yes	Yes	N/A	N/A	N/A	N/A
B	ATC Clearance	Private Certificate or student with endorsement	Yes	Yes within 30 nm of the class B primary airport	3 miles	3 miles	Clear of Clouds	Clear of Clouds
C	VFR: Radio Contact IFR: Clearance	Student Certificate	Yes	Yes within C space and above lateral limits of G space	3 miles	3 miles	500 below, 1,000 above, 2,000 horizontal	500 below, 1,000 above, 2,000 horizontal
D	VFR: Radio Contact IFR: Clearance	Student Certificate	Yes	No unless required by other airspace	3 miles	3 miles	500 below, 1,000 above, 2,000 horizontal	500 below, 1,000 above, 2,000 horizontal
E	VFR: None IFR: Clearance	Student Certificate	IFR only	No unless required by other airspace	3 miles	5 miles	500 below, 1,000 above, 2,000 horizontal	1,000 below, 1,000 above, 1 mile horizontal
G	None	Student Certificate	No	No unless required by other airspace	Day: 1 mile Night: 3 miles	5 miles	500 below, 1,000 above, 2,000 horizontal	1,000 below, 1,000 above, 1 mile horizontal