#### N235MA

(08/20/18 0931)

#### Cherokee 235 - PA-28B

#### PRE-FLIGHT CHECK LIST

Check Hobbs
All switches OFF
Check fuel gages
Main sump
Extend flaps

Right Wing Inspect flap and aileron

Inspect wing tip

Visual inspect both fuel tanks and sump

Inspect pitot

Inspect leading edge

Inspect landing gear assembly

Inspect fresh air intake

**Nose Inspection** 

Cowling secure Spinner secure

Alternator belt secure

Inspect nose wheel assembly Check oil quantity – 8 qt minimum

**Left Wing** 

Inspect fresh air intake Inspect leading edge

Inspect landing gear assembly Inspect stall warning tag

Visual inspect both fuel tanks and sump

Inspect wing tip

Inspect flap and aileron

**Empennage** 

Inspect belly

Inspect and secure all antenna

Inspect tail and rudder Inspect stabilator Secure luggage door

Inspect all windows, clean as necessary Inspect running lights for night ops

#### **IFR PRE-FLIGHT CHECK LIST**

VOR currency test Pitot tube heat working Mag compass freely moving Flight instruments normal

**Test radios** 

Marker beacon working Transponder working

#### **STARTING ENGINE**

Select fuel tank
Seat adjusted
Seatbelts secure
Brake set
All switches OFF

Lights OFF Circuit breakers IN

Carb head cold Prop full Mixture rich Throttle ¼" open MASTER ON Fuel pump ON Tail beacon ON

Prime COLD engine 3 times

**CLEAR PROP** 

Engage starter: after one rev switch to left mag

Engage both mags after start

Check oil pressure

Warm engine 800-1200 RPM for 2 minutes

Nav lights ON if needed

Fuel pump OFF Avionics ON

### PRE TAKE OFF / ENGINE RUN UP

**Brakes set** 

Throttle to 2150

Check oil pressure

Mag check – max drop 125 RPM Carb heat – max drop 100 RPM Cycle prop 3 times slowly Suction gage check Ampmeter check

Idle check

Throttle to 1000 RPM

Flight controls free and correct

Flap test and set Set trim tab Set rudder trim Altimeter set

DG set

Flight instruments normal **CONTINUED ON BACK SIDE** 

## PRE TAKE OFF / ENGINE RUN UP - continued

Primer in and LOCKED Fuel pump on - note gauge change Carb heat cold **Prop full RPM** Mixture rich

Door closed and latched Transponder to ALT

# **Approach Check List**

Listen and write ATIS/AWOS Check altimeter DG to compass Set GPS for approach Select proper approach plate Set tower frequency Set ILS frequency Verify Morse code for nav frequency Enter final approach bearing in OBS Set missed approach frequency Review plate info: heading; minimums Vocalize missed approach procedures Vocalize airport elevation **GUMP** check

## Landing

Confirm ALT at OM

Fuel pump ON Fuel selector to proper tank Mixture rich Flaps up 115 MPH Downwind - 100 MPH Base -**90 MPH** Final -**80 MPH** Short final - 70 MPH

Call out altitude to DH by 100s

After Landing	Shut Down
Fuel pump OFF	Avionics OFF
Carb heat OFF	Mix idle cut off
Retract flaps	Lights OFF
	Ignition OFF
	Master OFF
	FUEL OFF

## Closing up airplane

Refuel - note gallons **Record Hobbs** Clean interior Clean windows Fasten seatbelts

**SECURE FOR WIND if outside** 

Lock as necessary

## **ENGINE POWER FAILURE**

Maintain glide speed Find landing site Carb heat ON Mixture rich Fuel pump ON Switch fuel tanks Primer IN/LOCKED **Ignition BOTH** Attempt restart Call ATC

## OFF FIELD LANDING

Prepare for off field landing

Maintain approach speed **Fuel pump OFF Fuel selector OFF** Mixture idle cut-off Throttle closed **Ignition OFF Master OFF** Seat belts tight Cabin door ajar

# IN FLIGHT CABIN FIRE IN FLIGHT ENGINE FIRE

Master OFF	Open vents
Open vents	Fuel selector OFF
Heater/Defrost OFF	Throttle closed
Call ATC	Mixture idle cut off
Immediate landing	Master OFF
	Heat/Defroster closed
	Choose landing site
	Call ATC
•	Prepare off field landing

1/100	
	N235MA
	235
	MPH
۷r	65
Vx	90
V y V cc	100
V cc	115
	24"/25
V a	138
V no	156
V ne	197
V fe	115
V le	
V lo	

V so	60
V s1	70

DWind	100
Base	90
Final (1.3 Vso)	80

V go	80
V mdc (.2 Vso)	15
V bg (1.4 Vso)	90