

Cherokee 180

Speeds (KIAS @ max gross weight)

V _{SO}	49
V _{S1}	58
V _F	65-70
V _X	65
V _Y	75
V _A	114
V _{LE}	100
V _G	75
V _{NO}	121
V _{NE}	148
Max Crosswind Comp	17
Max Glide Distance	1 NM per 1000ft AGL

Specifications

Standard empty weight.....	1310 lbs
Gross weight	2400 lbs
Fuel	
Total	50 gal
Useable	49.75 gal
Pressure.....	0.5-6.0 psi
Oil	6-8 qts
Tire pressure	
Nose.....	24 psi (6.00x6, 4-ply or 6-ply)
Main(s)	24 psi (6.00x6, 4-ply or 6-ply)
Gear extension (on ground).....	4.5 in

Cabin

Dispatch status.....	signed/In-progress
Hobbs & tach time	record
Required docs (ARROW)	
Airworthiness.....	on board
Registration	current
Radio certificates	for int'l flights
Operating limitations.....	on board
Weight and balance of A/C.....	current
Control lock	remove
Ignition key	on dashboard
Flaps	down
Avionics switch.....	off
Master switch	on
Fuel gauges	verify operational
Exterior lights	verify operational
Master switch	off

Right Wing

Flaps	security/attach points/linkage
Ailerons	movement/security
Wingtip/nav lights	undamaged
Leading edge condition	undamaged
Tiedown	remove
Overflow vent	unobstructed
Right main gear.....	tire/strut/brakelines/chocks
Fuel tank	sump
Fuel quantity.....	check visually
Fuel cap	secured/vent clear

Nose

Engine cowling	secure/undamaged
Oil level	6-8 qts
Propeller/spinner	undamaged
Engine cooling inlets.....	unobstructed
Alternator belt	condition/tightness
Air filter inlet.....	unobstructed
Nose gear.....	tire inflation/oleo strut/chocks
Fuel strainer	sump
Windshield.....	clean/undamaged

Left Wing

Fuel tank.....	sump
Fuel quantity.....	check
Fuel cap	secured/vent clear
Left main gear.....	tire/strut/brake lines/chocks
Tiedown.....	remove
Overflow vent	unobstructed
Pitot/static mast	unobstructed
Stall warning switch	moves freely
Leading edge condition.....	undamaged
Wingtip/nav lights	undamaged
Ailerons	movement/security
Flaps	security/attach points/linkage

Empennage

General surface condition	undamaged
Stabilator	movement/security/linkage
Rudder (do not move on ground)	security
Tail tie down	remove
Baggage door	closed/locked

Before Startup

Passenger briefing.....	complete
Seats/belts/harnesses	adjusted/secure
Flaps	up
Flight controls	free and correct
Fuel selector valve.....	fullest tank
Carburetor heat	off
Avionics switch	off

Engine Start

Note: This aircraft does NOT cross feed from both fuel tanks. Fuel tanks must be switched periodically in order to maintain an even fuel load.

Brakes	applied
Mixture	rich
Throttle	open ¼ inch
Master switch	on
Beacon	on
Electric fuel pump.....	on
Primer.....	prime as required
Ignition switch.....	left mag only
Prop area.....	clear left/center/right
Ignition button.....	push/hold to start
Throttle	1000 rpm
Oil pressure	normal within 20 secs
Ignition switch.....	both
Ammeter.....	ensure alternator charging
Mixture	pre-lean for ground ops
Avionics	on

Transponder	squawk 1200/standby
Electric fuel pump	off
Fuel timer.....	start
Radios	obtain weather and taxi clearance

Taxi

Brakes	check
IFR taxi check (if needed)	
Compass.....	swinging freely
Turn coordinator.....	opposite of turn
Directional gyro	shows turn
Attitude indicator	5mins/5°

Ground check/Engine run-up

Aircraft	position appropriately
Brakes	apply
Door/window	closed/latched
Primer	in/locked
Fuel selector valve	on fullest tank
Elevator trim.....	set to neutral
Mixture (lean for density altitude)	
Mixture	full rich
Throttle.....	2000 rpm
Mixture ...	adjust to slightly rich of full power
Engine (operational check)	
Throttle.....	2000 rpm
Oil pressure/temperature.....	normal
Alternator	14-15 volts
Magnetos	125 rpm drop/run smooth
Carburetor heat	check for ice
Idle check.....	verify engine operation
Throttle	1000 rpm
Flight instruments.....	checked/set
Radios	notify traffic/take-off clearance

Before Takeoff

Lights	as needed
Transponder	alt
Fuel selector	fullest tank
Electric fuel pump	on
Take-off briefing	
Engine loss prior to rotation.....	briefed
Engine loss after rotation.....	briefed
Engine loss above 700' AGL	briefed
Runway	clear on final/ahead/departure

Normal Takeoff

Throttle	full
Rotate	65-70 KIAS
Initial climb-out.....	75 KIAS
Cruise climb	87 KIAS

Short-field Takeoff

Flaps	25°
Throttle	full
Rotate and climb-out (first 100' agl).....	65

Soft-field Takeoff

Flaps	25°
Throttle	full
<i>Maintain a slightly nose high attitude until the aircraft leaves the runway</i>	

Climb-out

(above 100' agl and clear of all obstacles)	
Flaps	retract incrementally
Engine gauges	check
Airspeed	87 KIAS

Cruise

Throttle	2500 rpm
Mixture	re-lean every 3000' msl
Heading indicator/compass.....	crosscheck
Landing/Taxi lights.....	off
Electric boost pump	off above 1000' AGL

Switching fuel tanks

Aircraft.....	straight and level
Electric boost pump	on
Fuel selector switch	to other tank
Fuel pressure/flow	stable for 30 seconds
Electric boost pump	off

Descent/Landing

Seatbelts and harnesses	secure
Electric boost pump	on
Fuel selector	fullest tank
Throttle	app. 1500 rpm
Mixture	enrich as needed
Flaps	as desired
Airspeed	75-80 KIAS on final
Carburetor heat	as needed

After Landing

Runway	clear/exited
Flaps	up
Lights (except beacon)	as needed
Fuel pump	off
Elevator trim	neutral
Carburetor heat	as needed
Radios.....	obtain clearance to taxi

Shutdown

Lights (except beacon)	off
Avionics switch	off
Mixture	full lean
Ignition switch.....	off
Master switch	off
Hobbs & tach time	record
Trash & personal items.....	removed from plane
Aircraft.....	tied down/in hangar/chocked
Leading edges/surfaces.....	wipe down
Dispatch status.....	filled out/complete

WARNING: The information required to be in any checklist varies between individual aircraft. The information in this checklist constitutes only partial information and is not to be used as a substitute for the information contained in the approved pilot's operating handbook. Use of this checklist indicates that the user assumes all risk of use and consents to bear all liability associated with the use of this product.

AV-30C



WARNING

This device was configured upon installation. Entering the setup menu is forbidden. Do NOT attempt to change the fields or reconfigure the device.

Set altimeter

Button 2..... press until '1:3' page is visible
Knob

..... press once to select altimeter
..... rotate knob to change altimeter
..... press again to save setting

Set heading

Button 2..... press until '1:3' page is visible
Knob

..... press twice to select heading
..... rotate knob to change heading
..... press again to save setting

Set transponder code/mode

Button 2..... press until 'Al' page is visible
Knob

..... press to enter 'edit' mode
..... rotate to select/modify digit(s)

Button 2..... press to set xpdr mode (if needed)

Button 1..... press to save changes