



C172 MANEUVERS

*Pre Maneuver Checklist:

Clearing Turns	Complete
Fuel Selector	Both
Mixture	Set for density altitude
Carb. Heat	OFF outside of green arc
Magnetos	Both
Primer	Locked

Power-Off (Approach) Stall:

Altitude	Min. 1500 ft. AGL
Carb. Heat	On
Throttle	1700 RPM
Flaps	One notch at a time
Speed	Slow to 70mph
Stabilized Approach	Begin descent
Throttle	Reduce to Idle
Pitch Attitude	Pitch up as if landing

—Recovery—

Back Pressure	Reduced
Throttle	Full Open
Carb. Heat	Off
Wings	Level
Flaps	Reduced one notch
Pitch	80mph
Flaps	Reduce one notch at a time (when VSI = 0)
Airspeed	80mph and climb to original altitude and level off

Power-On (Departure) Stall:

Altitude	Min. 1500 ft. AGL
Carb. Heat	On
Throttle	1500 RPM
Altitude	Maintain
Airspeed	Slow to 75mph
Pitch	Up as if taking off
Throttle	Full Open
Carb. Heat	Off

—Recovery—

Back Pressure	Reduced
Throttle	Full Open
Airspeed	Establish Vx or Vy before returning to normal flight attitude

Ground Reference Maneuvers:

Altitude	600 - 1000 ft AGL
Entry	Downwind
Exit	Downwind

Steep Turns:

Altitude	Min. 1500ft. AGL
Power	2300RPM
Airspeed	100mph (V _A or lower)
Bank	45 Degrees
Power	Add 100-200 RPM
Pitch	Slight back-pressure
Trim	As required

Slow Flight:

Altitude	Min. 1500ft. AGL
Carb. Heat	On
Throttle	1700 RPM
Flaps	One notch at a time
Pitch	Up to maintain altitude
Airspeed	55mph (Flaps down) 65mph (Flaps up)
Throttle	Add as necessary to maintain altitude

Short-Field Takeoff:

Flaps	Up (10° no obstacle)
Runway	Use maximum available
Brakes	Hold
Throttle	Full Open
Engine Inst	Check
Brakes	Release
(Takeoff)	
Rotate	60mph
Airspeed	V _x = 70mph
Flaps	Retract clear of all obstacles
Airspeed	Increase to V _y = 80mph

Soft-Field Takeoff:

Flaps	10° no obstacle
Yoke	Full Aft
Runway	Align on runway centerline without stopping
Power	Full Open and release back pressure as speed increases
Pitch	Pop wheelie and pitch forward into ground effect
Airspeed	V _x or V _y (70 or 80 mph)
Flaps	Retract clear of all obstacles
Airspeed	Increase to V _y = 80mph

Short-Field Landing:

Flaps	30°
Airspeed	65mph
Touchdown	Within 200 ft. of point
Braking	Maximum while pulling full aft on yoke

Soft-Field Landing:

Flaps	30°
Touchdown	Softly, mains first
Nose wheel	Gently lower

* The Pre Maneuver Checklist must be completed prior to any private pilot maneuver



CHEROKEE MANEUVERS

*Pre Maneuver Checklist:

Clearing Turns	Complete
Fuel Selector	Both
Mixture	Set for density altitude
Carb. Heat	OFF outside of green arc
Magnetos	Both
Primer	Locked

Power-Off (Approach) Stall:

Altitude	Min. 1500 ft. AGL
Throttle	1700 RPM
Flaps	One notch at a time
Speed	Slow to 70mph
Stabilized Approach	Begin descent
Throttle	Reduce to Idle
Pitch Attitude	Pitch up as if landing

—Recovery—

Back Pressure	Reduced
Throttle	Full Open
Wings	Level
Flaps	Reduced one notch
Pitch	75mph
Flaps	Reduce one notch at a time (when VSI = 0)
Airspeed	85mph and climb to original altitude and level off

Power-On (Departure) Stall:

Altitude	Min. 1500 ft. AGL
Throttle	1500 RPM
Altitude	Maintain
Airspeed	Slow to 70mph
Pitch	Up as if taking off
Throttle	Full Open

—Recovery—

Back Pressure	Reduced
Throttle	Full Open
Airspeed	Establish Vx or Vy before returning to normal flight attitude

Ground Reference Maneuvers:

Altitude	600 - 1000 ft AGL
Entry	Downwind
Exit	Downwind

Steep Turns:

Altitude	Min. 1500ft. AGL
Power	2300RPM
Airspeed	100mph (V _A or lower)
Bank	45 Degrees
Power	Add 100-200 RPM
Pitch	Slight back-pressure
Trim	As required

Slow Flight:

Altitude	Min. 1500ft. AGL
Throttle	1700 RPM
Flaps	One notch at a time
Pitch	Up to maintain altitude
Airspeed	60mph (Flaps down) 70mph (Flaps up)
Throttle	Add as necessary to maintain altitude

Short-Field Takeoff:

Flaps	25°
Runway	Use maximum available
Brakes	Hold
Throttle	Full Open
Engine Inst	Check
Brakes	Release
(Takeoff)	
Rotate	65mph
Airspeed	V _x = 74mph
Flaps	Retract one notch at a time clear of all obstacles
Airspeed	Increase to V _y = 85mph

Soft-Field Takeoff:

Flaps	25°
Yoke	Full Aft
Runway	Align on runway centerline without stopping
Power	Full Open and release back pressure as speed increases
Pitch	Pop wheelie and pitch forward into ground effect
Airspeed	V _x or V _y (74 or 85 mph)
Flaps	Retract clear of all obstacles
Airspeed	Increase to V _y = 85mph

Short-Field Landing:

Flaps	40°
Airspeed	74mph
Touchdown	Within 200 ft. of point
Braking	Maximum while pulling full aft on yoke

Soft-Field Landing:

Flaps	40°
Touchdown	Softly, mains first
Nose wheel	Gently lower

* The Pre Maneuver Checklist must be completed prior to any private pilot maneuver