NSJ C172 MANEUVERS

*Pre Maneuver Checklist:

Clearing Turns Fuel Selector Mixture Carb. Heat Magnetos Primer

Complete Both Set for density altitude OFF outside of green arc Both 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

Power-On (Departure) Stall:

Altitude Carb. Heat Throttle Altitude Airspeed Pitch Throttle Carb. Heat -Recovery-Back Pressure Throttle Airspeed

On 1500 RPM Maintain Slow to 75mph Up as if taking off Full Open Off Reduced Full Open Establish Vx or Vy before returning to normal flight attitude

altitude and level off

Min. 1500 ft. AGL

Ground Reference Maneuvers:

Altitude Entry Exit

600 - 1000 ft AGL Downwind Downwind

Steep Turns:

Altitude Power Airspeed Bank Power Pitch Trim

Slow Flight:

Altitude Carb. Heat Throttle Flaps Pitch Airspeed Throttle

Short-Field Takeoff:

Flaps Runway Brakes Throttle Engine Inst Brakes (Takeoff) Rotate Airspeed Flaps Airspeed

Soft-Field Takeoff:

Flaps Yoke Runway Power Pitch Airspeed

Flaps Airspeed

Short-Field Landing:

Flaps Airspeed Touchdown Braking

Vx or Vy (70 or 80 mph) Retract clear of all obstacles Increase to Vy = 80mph

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

Min. 1500ft. AGL

100mph (VA or lower)

Add 100-200 RPM

Slight back-pressure

Min. 1500ft. AGL

One notch at a time

55mph (Flaps down)

Up (10° no obstacle)

Use maximum available

Retract clear of all obstacles

Align on runway centerline

Full Open and release back pressure as speed increases

forward into ground effect

Pop wheelie and pitch

Increase to Vy = 80mph

10° no obstacle

without stopping

65mph (Flaps up)

Up to maintain altitude

Add as necessary to maintain

2300RPM

45 Degrees

As required

1700 RPM

altitude

Hold

Check

Release

60mph Vx = 70mph

Full Aft

Full Open

On

Soft-Field Landing:

30° Flaps Touchdown Nose wheel Gently lower

Softly, mains first

CHEROKEE MANEUVERS

*Pre Maneuver Checklist:

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

Power-Off (Approach) Stall:

Min. 1500 ft. AGL
1700 RPM
One notch at a time
Slow to 70mph
Begin descent
Reduce to Idle
Pitch up as if landing
Reduced
Full Open
Level
Reduced one notch
75mph
Reduce one notch at a time
(when $VSI = 0$)
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

<u>Steep Turns:</u> Altitude Power Airspeed Bank Power Pitch Trim
<u>Slow Flight:</u> Altitude Throttle Flaps Pitch Airspeed
Throttle
Short-Field Takeoff: Flaps Runway Brakes Throttle Engine Inst Brakes <i>(Takeoff)</i> Rotate Airspeed Flaps
Airspeed
<u>Soft-Field Takeoff:</u> Flaps Yoke Runway
Power
Pitch

Min. 1500ft. AGL 2300RPM 100mph (V_A or lower) 45 Degrees Add 100-200 RPM Slight back-pressure As required

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

Use maximum available Hold Full Open Check Release 65mph Vx = 74mph Retract one notch at a tim

Retract one notch at a time clear of all obstacles Increase to Vy = 85mph

25°
Full Aft
Align on runway centerline
without stopping
Full Open and release back
pressure as speed increases
Pop wheelie and pitch
forward into ground effect
Vx or Vy (74 or 85 mph)
Retract clear of all obstacles
Increase to $Vy = 85mph$

25°

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