Power On Stall (Take Off Stall)

Look for Traffic (Wing Tip, Nose, Wing Tip)
Carb Heat (As Required)
Power Down to 1500 RPM Maintain Pitch
*****Increasing Pitch needed as Airspeed Slows to Maintain Altitude*****
Slow to 65 mph
Full Power, & Right Rudder Together (Rudder Needed for P-Factor and Tor que)
Climb Attitude then Over Climb
Continue to Increase Pitch (AOA) Slow and Smooth to Create a Stall (Buffeting)

Stall Recovery

Reduce AOA (Angle of Attack) by Lowering Nose
Maintain Right Rudder

Altitude Recovery

Level Attitude allowing plane to increase speed. No need to lose Altitude.
As speed increases Decrease Rudder
Reduce Power for Normal Cruise

Requirements

Heading must remain within + or - 10° at all times. Includes the slow down, power up, through the stall, & recovery procedures

Altitude must remain + or – 100 ft until power is increased for the climb. At this Point there are no further Altitude requirements.

Turns should be done at shallow banks (10^{o})

You must feel buffet to be considered a stall. Stall warning system warns of impending stall, but not that the stall has actually occurred.

Yaw Control is a MUST!!! Use rudder to control the nose drifting Left or Right. Not Ailerons! At all times. Cherokee is not Legal to perform Spins!

Steep Bank Turns

To Left
Start on a Heading (Pick Reference Point)
Look for Traffic (Wing Tip, Nose, Wing Tip)
Increase Power by ~50 RPM (2350RPM Cold Weather 2400RPM Warm Weather)
Roll into Left Turn 45^{o} of Bank
Pitch Up to Maintain Altitude
Use Nose, Horizon, & VSI to maintain Altitude (Cowling Hinge on Horizon)
Roll Out on Start Heading 360^{o} Turn
Reduce Pitch

To Right
Start on a Heading (Pick Reference Point)
Look for Traffic (Wing Tip, Nose, Wing Tip)
Increase Power by ~50 RPM (2350RPM Cold Weather 2400RPM Warm Weather)
Roll into Right Turn 45^{o} of Bank
Pitch Up to Maintain Altitude
Use Nose, Horizon, & VSI to maintain Altitude (Cowling Hinge on Horizon)
Roll Out on Start Heading 360^{o} Turn
Reduce Pitch

Requirements

Roll Out Heading must be within + or - 10°

Altitude must remain + or – 100 ft at ALL TIMES

Airspeed Should remain + or – 10 mph This is why we increase power slightly

Divide attention from Outside to inside the plane. USE THE HORIZON OUTSIDE

Roll out immediately after losing 100 ft if you have made a mistake. The plane will increase speed and engine rpm very rapidly if you do not.