PRIVATE PILOT MANEUVERS

1)

Pre-Maneuver

C150

- Clearing Turns 2x 90° 1)
- 2) Altitude Adequate
- 3) Fuel Both
- 4) Mixture Rich
- Carb HeatOff In Green Arc 5)

Slow Flight

- Clearing turn +1500 feet AGL 1)
- Carb heat on: Power to 1500: Flaps 10° 2)
- Increase pitch to maintain ALT as airspeed decreases 3) 4) Flaps 30°
- 5) (65mph/ 55kts) increase power to maintain level flt
- 6) TRIM
- Perform straight and level, and turns (20° or less) 7)
- **Pitch Airspeed- Power Altitude** 8)

Recovery

- Apply full power, flaps 20°, pitch level flight 9)
- 10) Flaps to 10° accelerating through (70/60)
- 11) Flaps to 0° accelerating through (80/70)- TRIM
- 12) Accelerate to normal cruise

Power Off Stall (Landing Stall)

- Clearing turn +1500 feet AGL 1)
- Carb heat on: Power to 1500 2)
- Flaps 30° 3)
- Establish (70mph/60kt) descent 4) 5)
 - Power idle
- 6) Apply back pressure to maintain altitude

Recovery

- 7) Release back pressure to reduce pitch
- Full power, wings level with coordinated rudder and 8) aileron
- Flaps to 20° immediately, nose to horizon 9)
- 10) Positive VSI, Flaps to 10°
- 11) Positive VSI, Flaps to 0°
- 12) Stabilize climb out at Vy (80mph/70kts)- TRIM

Power On Stall (Departure Stall)

- Clearing turn +1500 feet AGL 1)
- Carb heat on: Power to 1500 2)
- Slow to (65mph/ 56kts) level flight 3)
- 4) **Full Power**
- 5) Smoothly increase the pitch to induce stall (20°)

Recovery

- Release back pressure to reduce pitch 6)
- Wings level with coordinated rudder and aileron 7)
- Establish Vy pitch attitude 8)
- Stabilize climb out at Vy (80mph/70kts)- TRIM 9)

Steep Turns

- Clearing turn +1500 feet AGL 1)
- Note heading (outside reference point) and altitude 2)
- Power 2500, cruise airspeed below Va 3)
- Roll into a 45° bank turn, add power 4)
- Back pressure and power to maintain altitude and 5) airspeed
- 6) Continuous scan (out front, altimeter, AS indicator)
- Lead rollout for heading by 20° 7)
- 8) Power to 2500

V Speeds (MPH/ <i>Kts</i>)	B Glide: 70/60
Vso: 48/42	Vfe: 100/86
Vs1: <mark>54/</mark> 48	Va: <u>109/<i>97</i></u>
Vr: 55/ <i>50</i>	Vno: 120/ <i>111</i>
Vx: 70/60	Vne: 162/141
Vy: <mark>78</mark> / <i>68</i>	Max X-wind: 15kts

- **Turns Around a Point**
- Clearing turn, 600'-1,000'AGL
- 2) Enter downwind at (~104mph/ 90 kts)
- 3) When point is under wing, begin left turn of approx. 30° (steepest bank)

N704YE

Two circuits Alt +/-100' A/S +10 Kts. Hdg. +10° 4)

S Turns

- Clearing turns, 600'-1,000'AGL 1)
- 2) Enter downwind trimmed at (~104mph/ 90 kts)
- When reference line is under wing, roll into left turn 3) (steepest bank)
- 4) As you turn past the 90° point, reduce bank to track a symmetric half circle
- 5) Cross the 180° point with wings level and parallel with reference line
- 6) Repeat 2-5 but in a right turn.
- Altitude +100' A/S +10 Kts. 7)

Short Field Takeoff (0° Flaps)

- Use all available runway 1)
- 2) Hold brakes
- 3) Full power

1)

- 4) Announce (engine instruments in green)
- **Release brakes** 5)
- 6) Announce "airspeed alive"
- 7) Accelerate to Vx (70/60) and rotate
- Climb at Vx (70/60) until obstacle is cleared 8)
- 9) Announce "obstacles cleared" pitch for Vy (80/70)

Short Field Landing (30° Flaps)

- Select runway touchdown point
- Abeam touchdown point (power 1700rpm, 10° flaps) 2)
- 3) Pitch for (80mph/ 70kts).
- When touchdown point is 45° off shoulder turn base 4)
- 20° flaps and pitch (75mph/ 65kts). 5)
- Turn final, 30° flaps, pitch (70mph/ 60kts). 6)
- 7) Smoothly reduce power so as to land on the selected point on the runway +200 feet
- 8) Upon landing, simulate max braking

Soft Field Takeoff (10° Flaps)

- Taxi onto runway centerline with voke full aft 1)
- No brakes, keep rolling and smoothly apply full power 2)
- Announce (engine instruments checked) 3)
- 4) Reduce back pressure to allow nose wheel to remain off ground
- Announce "airspeed alive" 5)
- 6) When airborne, lower nose in order to remain in ground effect
- 7) Accelerate to Vx (70mph/ 60kts).
- **Retract flaps** 8)

possible

Owner: Robert Brevoort

2)

3)

4)

5)

6)

7)

Continue climb at Vy (80mph/ 70kts). 9)

20° flaps and pitch for (75mph/ 65kts).

nosewheel. Aerodynamic braking only

Soft Field Landing (30° Flaps)

When touchdown point is 45° off shoulder turn base

Approaching touchdown, begin flare, using power to

Apply full back pressure on yoke to keep weight off

1 of 2

Abeam touchdown point (power 1700rpm, 10° flaps) 1) Pitch for (80mph/ 70kts).

Turn final, 30° flaps, pitch for (70mph/ 60kts).

minimize sink rate and touchdown as gently as