

## Cessna 172M Maneuvers

### Normal Take-off and Climb:

- Flaps at 0 degrees
- Ailerons into the wind and elevator about 1/2 in. back from the gust lock hole
- Apply smooth full power, check for at least 2300 RPM (less than 2370 RPM), and oil pressure and temperature in the green
- Maintain runway alignment with rudder (mostly right)
- Slowly decrease aileron deflection as airspeed increases
- At 55 KIAS begin to pull elevator back to pull nose wheel off the ground and place the top edge of cowling on the horizon
- Establish wind correction angle to stay over the runway
- Keep the top of the cowling on the horizon and the wings level. Climb speed 70 to 80 KIAS

### Steep Turns:

- Ask passengers to help look for traffic
- Clearing turns
- Accelerate to 95 KIAS
- When rolling into the turn, dial in 2 full turns of nose-up trim
- Establish a 40 to 45 degree bank, focus on cowling and horizon
- If low, roll out the bank slightly and increase the back-pressure
- If high, roll in steeper and reduce back-pressure
- 20 degrees before the desired heading, begin a smooth roll-out with rudder and aileron — hold the pitch down and dial out the nose-up trim

### Slow Flight:

- Carb heat on
- Reduce power to 1500 RPM, hold heading with rudder (left)
- Hold altitude with back-pressure and trim (three full turns) while decelerating
- At 70 KIAS, add power to 1850 RPM, adjust pitch and trim for 64 KIAS
- Adjust altitude with power and maintain 64 KIAS with pitch
- REMEMBER: PITCH FOR AIRSPEED, POWER FOR ALTITUDE

### Slow Flight to Cruise:

- Carb heat off
- Smoothly add full power and forward elevator pressure to hold altitude
- Hold heading with rudder (right)
- Accelerate to 100 KIAS
- Take out 3 turns of nose-up trim and reduce power to 2400 RPM

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### Power-off Stall:

- Clearing turns
- Carb heat on, power off smoothly
- Hold altitude with pitch, heading with rudder
- At stall buffet, simultaneously reduce pitch, level wings, add full power, turn carb heat off, and apply right rudder pressure
- Smoothly raise the pitch to climb attitude
- Transition to cruise

### Power-off Stall with Flaps:

- Clearing turns
- Carb heat on, power to 1700 RPM
- Hold altitude with pitch, heading with rudder
- Upon reaching 85 KIAS, begin to apply full flaps while holding altitude with forward elevator pressure
- At final approach speed (65 KIAS), smoothly pull off power, establish a descent (as if you are coming in for landing), then raise pitch to simulate a landing stall
- At stall buffet, simultaneously reduce pitch, level wings, add full power, turn carb heat off, and apply right rudder pressure
- Immediately after power is applied, raise flaps to 20 degrees (3 seconds) and raise pitch to climb attitude
- As the airplane stabilizes, raise flaps to 10 degrees (3 seconds)
- Flaps-up and transition to cruise

### Power-on Stall:

- Clearing turns
- Carb heat on, power to 1500 RPM
- Hold altitude with pitch, heading with rudder
- At 55 KIAS, carb heat off, full power, right rudder
- Gradually continue to increase pitch
- At stall buffet, lower pitch below the horizon, then smoothly raise pitch to climb attitude and transition to cruise