

### PRE-MANEUVER FLOW

1. CLEARING TURNS
2. Speed ~ 90 kts
3. FUEL PUMP ON
4. MIXTURE RICH
5. LANDING LIGHT ON

### V SPEEDS

- |                   |                   |
|-------------------|-------------------|
| $V_R = 55$ kts    | $V_{S0} = 50$ kts |
| $V_X = 65$ kts    | $V_{S1} = 58$ kts |
| $V_Y = 75$ kts    | $V_A = 112$ kts   |
| $V_{BG} = 70$ kts |                   |

### SHORT TAKEOFF

1. FLAPS 2 (25°)
2. FULL RUNWAY
3. HOLD BRAKES
4. ROTATE  $V_R$
5. CLIMB  $V_X$
6. OBSTACLE 100 FT
7. CLIMB  $V_Y$
8. RETRACT FLAPS

### SHORT LANDING

1. FLAPS 3 (40°)
2.  $V_{APP}$  65-70kts
3. AIMING POINT
4. TOUCH DOWN PT
5. LAND ON SPOT
6. AIR BRAKES
7. FLAPS 0
8. MAX BRAKING

### SLOW FLIGHT (3K)

1. FLAPS 3 (45°)
2. MAINTAIN ALTITUDE
3. MAINTAIN 55 KTS
4. PITCH FOR AIRSPEED  
POWER FOR ALTITUDE

### PWR OFF STALL (3K)

1. FLAPS 3 (45°)
2. DESCEND TO "RWY"
3. FLARE AT 65 kts
4. STALL
5. FULL PWR/NOSE DN
6. ARREST DESCENT
7. FLAPS 2 (35°)
8. CLIMB
9. RETRACT FLAPS SLW

### SOFT TAKEOFF

1. FLAPS 2 (25°)
2. CONTROLS BACK
3. DON'T STOP
4. ROTATE WHEN  $V_r$
5. GROUND EFFECT
6. ACCELERATE TO  $V_X$
7. CLIMB  $V_X \rightarrow V_Y$
8. RETRACT FLAPS

### SOFT LANDING

1. FLAPS 3 (40°)
2.  $V_{APP}$  70kts
3. SOFT LANDING
4. CONTROLS BACK
5. DON'T STOP

### PWR ON STALL (3K)

1. MAINTAIN ALT
2. SLOW TO 70 kts
3. PITCH UP
4. POWER ~2200 RPM
5. STALL
6. FULL PWR/NOSE DN
7. ARREST DESCENT
8. CLIMB

### S-TURNS / TURNS AROUND PT (600-1000 FT)

1. FLY ~90 kts
2. ENTER ON DOWNWIND
3. STEEP ON DOWNWIND
4. SHALLOW ON UPWIND

### EMERGENCY DESCENT RECOVER >1,500 FT

1. POWER IDLE
2. BANK 30 DEG LX/RX ON HEADING
3. ACCELERATE TO  $V_A$
4. PREPARE FOR CRASH LANDING  
-OR-
5. BANK 45°
6. ACCELERATE TO  $V_A$

PIPER **PA-28**

Reviewed 23 JAN 2025  
Tizi Bernard