

# PA28-140 Checklist

## N56591

### V - Speeds in Miles Per Hour ( MPH )

$V_{s0} = 55$     $V_s = V_{s1} = 64$     $V_x = 78$     $V_y = 89$   
 $V_{fe} = 115$     $V_{no} = 140$     $V_a = 125$     $V_{ne} = 171$   
Best Glide Speed = 80 MPH

### Before Starting Engine

1. Preflight Inspection - **COMPLETE**
2. Seats, Seatbels & Shoulder Harness - **ADJUST and LOCK**
3. Fuel Selector Valve - **ON FULLEST TANK**
4. Avionics Power - **OFF**
5. Electrical Equipment - **OFF**
6. Brakes - **TEST and SET**
7. Flaps - **RETRACTED**
8. Circuit Breakers - **CHECK**

### Starting Engine - Normal

1. Carburetor Heat - **OFF**
2. Mixture - **FULL RICH**
3. Throttle - **OPEN  $\frac{1}{2}$ "**
4. Prime - **AS REQUIRED. Skip when engine is hot.**
5. Master - **ON**
6. Rotating Beacon - **ON**
7. Fuel Pump - **ON**
8. Starter - **ENGAGE**
9. Throttle - **1000 RPM WARM UP**
10. Oil Pressure - **CHECK**
11. Fuel Pump - **OFF**

### After Starting

1. Lights - **AS REQUIRED**
2. Radios - **SET**
3. Transponder - **STANDBY, 1200**
4. Directional Gyro - **SET**
5. Mixture - **LEAN FOR TAXI**
6. Parking Brake - **RELEASE**
7. Brakes & Steering - **CHECK**

### Before Takeoff - Run-Up

1. Cabin Doors and Windows - **CLOSED & LOCKED**
2. Parking Brake - **SET**
3. Flight Controls - **FREE & CORRECT**
4. Flight Instruments - **SET**
5. Fuel Selector Valve - **ON - FULLEST TANK**
6. Elevator Trim - **TAKEOFF**
7. Mixture - **RICH or AS REQUIRED**
8. Throttle - **2000 RPM**
  - (a) Magnetos - **CHECK**
  - (b) Carburetor Heat - **CHECK**
  - (c) Engine Instruments & Ammeter - **CHECK**
  - (d) Suction Gauge - **CHECK: 5 InHg $\pm$ 0.1**
9. Throttle - **IDLE, THEN 1000 RPM**
10. Radios - **SET**
11. Transponder - **SET, THEN ALTITUDE**
12. Throttle Friction Lock - **ADJUST**
13. Fuel Pump - **ON**
14. Lights - **AS REQUIRED**
15. Parking Brake - **RELEASE**

### M.P.S.P.I.T.

- |               |                |  |
|---------------|----------------|--|
| 1. MIXTURE    | 2. PROP        | 3. SEATS, SEATBELTS,<br>SWITCHES, STACKS |
| 4. PITOT HEAT | 5. INSTRUMENTS | 6. TRANSPONDER,<br>TRIM, TIME            |

### Takeoff - Normal

1. Flaps - **0-10°**
2. Power - **FULL THROTTLE**
3. Elevator Control - **ROTATE AT 55 MPH**
4. Climb Speed -  $V_y$ , **89 MPH**
5. Flaps - **RETRACT**

### Takeoff - Short Field

1. Flaps - **25°**
2. Power - **FULL THROTTLE**
3. Elevator Control - **ROTATE AT 47-56 MPH**
4. Climb Speed -  $V_x$  **78 MPH, CLIMB OVER OBSTACLE**
5. Climb Speed -  $V_y$  **89 MPH**
6. Flaps - **POSITIVE RATE, RETRACT**

### En Route Climb ( 500' - 1,000' AGL )

1. Airspeed - **100 MPH**
2. Mixture - **FULL RICH ( BELOW 3000' MSL )**
3. Fuel Pump - **OFF**

## Cruise

1. Power - **SET**
2. Elevator and Rudder Trim - **ADJUST**
3. Mixture - **Lean ( ABOVE 3000' MSL )**
4. Engine Instruments - **CHECK**
5. Landing Light - **OFF**

## Descent

1. Power - **SET**
2. Mixture - **ENRICHEN AS REQUIRED**
3. Landing Light - **OFF**

## Before Landing

1. Seats, Belts & Shoulder Harness - **ADJUST and LOCK**
2. Fuel Selector Valve - **FULLEST TANK**
3. Mixture - **FULL RICH ( BELOW 3000' MSL )**
4. Fuel Pump - **ON**

## Landing - Normal

1. Airspeed - **85 MPH**
2. Flaps - **AS DESIRED ( BELOW  $V_{fe}$  )**
3. Airspeed - **76 MPH WITH 40° FLAPS**

## Landing - Short Field

1. Airspeed - **85 MPH**
2. Flaps - **40° ( BELOW  $V_{fe}$  )**
3. Airspeed - **66 MPH**
4. Elevator Trim - **ADJUST**
5. Power - **REDUCE TO IDLE AFTER CLEARING OBSTACLE**
6. Touchdown - **MAIN GEAR FIRST**
7. Brakes - **HARD BRAKING**
8. Flaps - **RETRACT TO AID BRAKING**

## After Landing

1. Flaps - **RETRACT**
2. Fuel Pump - **OFF**
3. Transponder - **STANDBY**
4. Lights - **AS REQUIRED**
5. Mixture - **LEAN FOR TAXI**

## Securing Airplane

1. Parking Brake - **SET**
2. Throttle - **1000 RPM**
3. Avionics Power - **OFF**
4. Electrical Equipment - **OFF ( EXCEPT BEACON )**
5. Mixture - **IDLE CUTOFF**
6. Beacon - **OFF**
7. Ignition Switch - **OFF**
8. Master Switch - **OFF**
9. Control Lock - **INSTALL**

## EMERGENCY PROCEDURES

### Engine Failure During Takeoff

1. Airspeed - **BEST GLIDE: 80 MPH**
2. Fuel Selector Valve - **OFF**
3. Fuel Pump - **OFF**
4. Mixture - **IDLE CUTOFF**

### Engine Failure During Flight

1. Airspeed - **BEST GLIDE - 80 MPH**
2. Fuel Selector - **SWITCH TANKS**
3. Magnetos - **BOTH**
4. Fuel Pump - **ON**
5. Carburetor Heat - **ON**
6. Mixture - **FULL RICH**
7. Thrittle - **FULL THROTTLE**
8. Engine Gauges - **CHECK**

### Forced Landings Without Engine Power

1. Airspeed - **BEST GLIDE - 80 MPH**
2. Mixture - **IDLE CUTOFF**
3. Fuel Selector - **OFF**
4. Magnetos - **OFF**
5. Flaps - **AS REQUIRED**
6. Doors - **OPEN BEFORE TOUCHDOWN**
7. Master Switch - **OFF**
8. Touchdown - **TAIL LOW**
9. Brakes - **HARD BRAKING**

### Precautionary Landings With Power

1. Airspeed - **BEST GLIDE - 80 MPH**
2. Flaps - **25°**
3. Selecting a Field - **FLY OVER TO NOTE TERRAIN AND OBSTRUCTIONS**
4. Electrical - **OFF**
5. Flaps - **40° - ON FINAL**
6. Airspeed - **76 MPH**

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Written by Pete Mills - 2013.10.19

Typeset with L<sup>A</sup>T<sub>E</sub>X

For use with N56591 - No other aircraft apply

The POH for PA28-140 is master.