

**Cessna 172R- N9560S**  
(10-26-23)

**\*Check Fuel Quantity**

**Preflight Cabin**

- |                                    |                 |
|------------------------------------|-----------------|
| 1. Windscreen                      | Clean           |
| 2. Pitot/AOA Cover                 | Remove          |
| 3. AROW(+Supplements)              | Check           |
| 4. Parking Brake                   | Off if Chocked  |
| 5. Control Wheel Lock              | Remove          |
| 6. Fuel Selector Valve             | Both            |
| 7. Fuel Shutoff Valve              | On (Full In)    |
| 8. Elevator Trim                   | Set for Takeoff |
| 9. Alternate Static & Air Source   | Off             |
| 10. Magneto & EIS Switches         | Off             |
| 11. Avionics Master Switch         | Off             |
| 12. EFIS 2 and Auto Pilot Switches | Off             |
| 13. Master Switch                  | On              |
| 14. Fuel Quantity                  | Adjust/Accept   |
| 15. Hobbs/Tach Time                | Record          |
| 16. Avionics Master Switch         | On              |
| 17. Avionics Cooling Fan           | Check           |
| 18. Avionics Master Switch         | Off             |
| 19. Flaps                          | Extend          |
| 20. Pitot Heat, Lights             | On/Check/Off    |
| 21. Master Switch                  | Off             |

**Preflight Empennage**

- |                     |                              |
|---------------------|------------------------------|
| 1. Tail Tie-Down    | Disconnect                   |
| 2. Control Surfaces | Check Freedom and Security   |
| 3. Trim Tab         | Check Security               |
| 4. Antennas         | Check Security and Condition |

**Preflight Right Wing**

- |                          |                |
|--------------------------|----------------|
| 1. Flap                  | Check          |
| 2. Aileron               | Check          |
| 3. Wing Tie Down         | Disconnect     |
| 4. Main Wheel Tire/Brake | Check          |
| 5. Fuel Quantity         | Check Visually |
| 6. Fuel Drain Valves (5) | Drain/Check    |
| 7. Fuel Filler Cap       | Secure         |

**Preflight Nose**

- |                                     |                                  |
|-------------------------------------|----------------------------------|
| 1. Fuel Strainer/Reservoir/Selector | (3)Drain/Check                   |
| 2. Engine Oil Dipstick              | Check Level and Secure           |
|                                     | *5 qt min                        |
|                                     | *Fill to 6+ for extended flights |
|                                     | *DO NOT OVERTIGHTEN              |
| 3. Engine Cooling Air Inlets        | Clear                            |
| 4. Propeller & Spinner              | Check                            |
| 5. Engine Cowling Security          | Check                            |
| 6. Alternator Belt                  | Check                            |
| 7. Air Filter                       | Check                            |
| 8. Nose Wheel Strut and Tire        | Check                            |
| 9. Static Source Opening            | Check                            |

**Preflight Left Wing**

- |                           |                    |
|---------------------------|--------------------|
| 1. Pitot/AoA Tubes        | Check for Blockage |
| 2. Fuel Tank Vent         | Check              |
| 3. Stall Warning Opening  | Check              |
| 4. Wing Tie-Down          | Disconnect         |
| 5. Fuel Quantity          | Check Visually     |
| 6. Fuel Drain Valves (5)  | Drain/Check        |
| 7. Fuel Filler Cap        | Secure             |
| 8. Aileron                | Check              |
| 9. Flap                   | Check              |
| 10. Main Wheel Tire/Brake | Check              |
| 11. Baggage Door          | Secure             |

**Before Starting Engine**

- |                         |                    |
|-------------------------|--------------------|
| 1. Preflight Inspection | Complete           |
| 2. Passenger Brief      | Complete           |
|                         | S- Seats/Seatbelts |
|                         | A- Air vents       |
|                         | F- Fuel            |
|                         | E- Emergency       |
|                         | T- Traffic         |
|                         | Y- Your Questions  |
| 3. Seats/Seatbelts      | Adjust and Lock    |
| 4. Brakes               | Test & Set         |
| 5. Circuit Breakers     | Check In           |
| 6. Lights               | Off Except Beacon  |

**Caution**

**The Avionics Master switch, EFIS 2 and Auto Pilot switches must be off during engine start to prevent possible damage to avionics.**

- |                                       |      |
|---------------------------------------|------|
| 7. Avionics Master, EFIS 2, AutoPilot | Off  |
| 8. Fuel Selector Valve                | Both |

**Starting Engine**

**NOTE**

**If engine is warm, omit priming**

**PRIMING PROCEDURE**

**NOTE: MAX PRIME 1-2 SECONDS**

- |                        |  |
|------------------------|--|
| 1. Master Switch       | On   |
| 2. Throttle Control    | Open ¼"  |
| 3. Mixture Control     | Idle Cut Off   |
| 4. Flashing Beacon     | On   |
| 5. Fuel Pump           | On   |
| 6. Mixture             | Full to obtain 3-5 GPH fuel flow, then Idle Cut Off      |
| 7. Fuel Pump           | Off  |
| <b>STARTING ENGINE</b> |  |
| 8. Master Switch       | On   |
| 9. Propeller Area      | Clear  |
| 10. Throttle           | Open 1/8"  |
| 11. Magneto & EIS      | On   |
| 12. Start Button       | Push   |
| 13. Mixture            | Full lean until engine fires, then smoothly to Full Rich |

**NOTE:**

**If the engine floods, Mixture idle cut off, open throttle ½ to full, and crank engine. When the engine fires, advance mixture to full rich & retard throttle promptly.**

- |                                  |              |
|----------------------------------|--------------|
| 14. Oil Pressure/Amps/Volts      | Check        |
| 15. Throttle                     | 1000 RPM     |
| 16. Mixture                      | Lean 1"      |
| 17. Throttle                     | 800-1000 RPM |
| 18. Nav Lights                   | On at Night  |
| 19. Avionics Master Switch       | On           |
| 20. EFIS 2 & Auto Pilot Switches | On           |
| 21. Flaps                        | Retract      |

**Before Taxi**

- |                                     |                      |
|-------------------------------------|----------------------|
| 1. Cabin Heat/Air                   | As Needed            |
| 2. Radios/Nav aids/GPS              | Checked/Set          |
| 3. ATIS                             | Set BARO/ALT/HDG Bug |
| 4. Autopilot (Upper left on PFD)    | Off                  |
| 5. Transponder                      | Verify ALT/SQK       |
| 6. Caution/Warning No Annunciations |                      |

**Taxi**

- |                             |                          |
|-----------------------------|--------------------------|
| 1. Brakes                   | Release and Test         |
| 2. Throttle                 | Adjust for Min Brake Use |
| 3. Check Flight Instruments | PFD/HDG/ATTITUDE/COMPASS |
| 4. Flight Controls          | Position for Wind        |

**NOTE:**

This checklist is a guide to coordinate Pilot Operating Handbook and STC data applicable to this particular aircraft only. The applicable Pilot Operating Handbook and STC installations remain the official documentation for this aircraft. **The pilot in command is responsible for complying with all items in the Pilot Operating Handbook and applicable STCs**



### Before Takeoff - Run-Up

1. Parking Brake Set
2. Seats/Seatbelts Secure
3. Seat Backs Most Upright Position
4. Cabin Doors Closed and Locked
5. Flight Controls Free & Correct
6. Flight Instruments Check & Set
7. Fuel Quantity Check
8. Mixture Richen +1/2"
9. Fuel Selector Both
10. Throttle 1800 RPM
  - a. EIS Switch Off (150 max drop)
  - b. Mag Switch Off (40 max drop)
  - c. Alternate Air Pull On RPM Drop
  - d. Engine Instruments Check
  - e. Amps/Volts Check Positive/28V
11. Annunciators Check
12. Throttle Check Idle
13. Throttle 800-1000 RPM
14. Mixture Lean +1/2"
15. Throttle Friction Lock Adjust
16. Skyview CDI Select Nav Source
17. Autopilot (Upper left on PFD) Off
18. Transponder Verify ALT/SQK No Annunciations
19. Parking Brake Release

### Before Takeoff- Hold Short Line

1. Frequency TWR/CTAF
2. Elevator Trim Set for Takeoff
3. Flaps Set for Takeoff (0-10°)
4. Land/Taxi/Bcn/Strobe On Nav Lights Night Only
5. Takeoff Brief Runway/Takeoff Type/Speeds/HDG/ALT Lose Engine...  
Runway IDLE, EXIT RWY  
Airborne Rwy Remaining LAND  
Below 1000 AGL PUSH 70kts,  
Land Straight +/-30°  
Above 1000 AGL PUSH 70kts,  
Consider Return to Airport
4. Mixture Rich or 1/4" lean(summer)

### Normal Takeoff

1. Flaps 0-10°
2. Runway Heading Verify
3. Throttle Full Open
4. Rotate (Vr) 55 KIAS
5. Vy 74 KIAS

### SHORT FIELD

1. FLAPS 10°
2. Use all Available Runway
3. Hold Brakes/Full Power/Check RPM
4. Release Brakes
5. Vr 51 KIAS
6. Vx 56 KIAS
7. Obstacle Cleared 73 KIAS/FlapsUP

### SOFT FIELD

1. FLAPS 10°
2. Full Aft/No Brakes
3. Remain in Ground Effect
4. Begin Climb Vx 62 KIAS
5. Obstacle Cleared 74 KIAS/Flaps UP

### Enroute Climb

1. Airspeed 75 - 85 KIAS
2. Throttle Full Open
3. Mixture Full Rich below 3000'
4. Engine Instruments Check
5. Transponder Verify ALT/SQK

### Cruise

1. Power As Needed
2. Elevator Trim Adjust
3. Mixture Lean as Needed
4. Lights As Needed

### Before Descent

1. Weather (ATIS) Obtain
2. Altimeters Set
3. Approach Brief
4. VOR/GPS Setup As Needed
5. FMS/GPS CDI Select
6. Fuel Selector Valve Both
7. Mixture Adjust

### Before Landing

1. Seats & Seat Belts Secure & Lock
2. Fuel Selector Valve Both
3. Mixture Control Richen
4. Landing & Taxi Lights On
5. Autopilot Off

### Normal Landing

1. Airspeed 65 - 75 KIAS
2. Wing Flaps As Needed  
0° - 10° below 110 KIAS  
20° -30° below 85 KIAS

### SHORT FIELD

1. Flaps 30°
2. Airspeed (@MTOGW) 61 KIAS
3. Aerodynamic Braking Flaps UP  
Yoke Aft- Apply Brakes

### SOFT FIELD

1. Flaps 20-30°
2. Hold Nosewheel Off
3. MINIMUM to NO Braking

### Balked Landing

1. Throttle Full Open
2. Wing Flaps Retract to 20°
3. Climb Speed 60 KIAS
4. Wing Flaps Retract Slowly

### After Landing (Clear of Runway)

1. Aircraft Clear of Runway  
Full Stop
2. Throttle 1000 RPM
3. Mixture Lean +1"
4. Throttle Adjust for Min Brake Use
5. Wing Flaps Up
6. Lights As Needed
7. Transponder ALT/1200
8. Pitot Heat Off
9. Taxi Clearance Brief

### Securing Aircraft

1. Parking Brake As Needed
2. Lights Off
3. EFIS 2 & Auto Pilot Switch Off
4. Avionics Master Switch Off
5. Throttle Idle
6. Mixture Idle Cut Off
7. EIS & Magneto Off
8. Master Switch Off
9. Control Wheel Lock Install
10. Fuel Selector Left or Right
11. Sun Shields Install
12. Aircraft Locked if away from Home
13. Flight Plan Closed

### V Speeds and Specs

- X-Wind (Max Demo'd) 15 Knots
- Best Glide Speed 68 KIAS (flaps up)
- Short Field Takeoff(flaps 10) 56KIAS
- Vx (Sea Level) 62 KIAS
- Vy (Sea Level) 74 KIAS
- Vso Stall w/ Flaps 40 KIAS
- Vs1 Stall w/o Flaps 48 KIAS
- Va (2550lbs) 105 KIAS
- Va (2200 Lbs) 98 KIAS
- Va(1900 Lbs) 90 KIAS
- Vno Max Structural Cruise 129 KIAS
- Vne Never Exceed 163 KIAS

### Aircraft Information

- Gross Takeoff Weight 2550 lbs
- Engine Lycoming IO-360-L2A
- Max Power 180 BHP
- Max Engine Speed 2700 RPM
- Fuel Type 100LL (Blue)
- Fuel Capacity 53 Gal Usable
- Oil Capacity 8 Qts (Minimum 5)
- Electrical 24 - 28 Volt / 60 Amp
- Tire Pressure Nose-45/ Main-38 PSI
- BEW 1680 Arm 39.65 Moment 66643

**N9560S**