CESSNA 172 S G1000 NORMAL PROCEDURES CHECKLIST v10.09.22

*This is to be used as a REFERENCE ONLY, it is not a substitute for the Airplane Flight Manual.
*Refer to AFM/POH for amplified procedures. User assumes all risk of use in using this product. User consents to and understands that American Flight Schools bears no liability for the use of this product.

Rotation Speed.....55	Vno.....129
Vy (SL).....74	Vy (10k).....72
Vx (SL) 62	Vx (10k).....67
Vso.....40	Vne.....163
Vs.....48	Best Glide.....68
Vfe(0-10).....110	Va.....105-90
Vfe(10-30).....85	Vref (full).....60-70
Max Xwind.....15	Vref (up).....65-75

Field				
Wx				
Gnd				
Twr				
Appr				
FSS				
Prac.				

Checklist Feedback Form

BEFORE STARTING ENGINE

1. Preflight Inspection.....Complete
2. Passenger Briefing.....Complete
3. Seats.....Upright
4. Seatbelts.....Fasten/Test
5. Brakes.....Test and Set
6. Circuit Breakers.....Check In
7. Electrical Equipment.....OFF
8. Avionics BUS 1&2.....OFF
9. Fuel Selector.....BOTH
10. Fuel Shutoff Valve.....ON
11. Cabin Doors.....Closed/Locked

STARTING ENGINE

1. Throttle.....Open ¼ Inch
2. Mixture Control.....IDLE CUTOFF
3. STBY BATT Switch
   a. TEST- (Hold 10 seconds, verify that green TEST light remains)
   b. ARM- (Verify that PFD comes on)
4. Engine Indicating System.....Check
5. BUS E Volts.....>24v
6. M BUS Volts.....<1.5v
7. BATT S Amps.....Discharging
8. STBY BATT Annunciator.....Check
9. Propeller Area.....”Clear”
10. Master Switch.....ON
11. Beacon Light Switch.....ON

If engine is warm, omit priming steps 12-16

12. Aux. Fuel Pump.....ON
13. Mixture.....FULL RICH
14. Fuel Flow.....Stable
15. Mixture.....IDLE CUTOFF
16. Aux. Fuel Pump.....OFF
17. Starter.....ENGAGE

After engine starts, immediately…

18. Starter.....DISENGAGE
19. Mixture.....ADVANCE
20. Oil Pressure.....Check
21. AMPS M & S.....Positive
22. LOW VOLTS CAS.....Extinguished
23. Lights.....ON as Required
24. Avionics Bus 1& 2.....ON

TAXIING

1. Mixture.....Set for Taxi
2. Transponder.....Set
3. Taxi Light.....ON
4. Radios.....Monitor GND
5. Taxi area.....Check Clear
6. Brakes.....Release & Test

BEFORE TAKEOFF (Run-up)

1. Parking Brake.....SET
2. Seat Backs.....Upright
3. Fuel Quantity.....Check
4. Fuel Selector Valve.....BOTH
5. Mixture.....Set for Altitude
6. Throttle.....1800 RPM
7. Magnetos.....Test
   R/BOTH/L/BOTH
   <175 Drop & <50 Diff.
8. VAC.....Check
9. Eng. Indicators.....Check
10. Alternator Check.....Complete
11. Amp/Volts.....Check
12. Throttle Control.....Idle Check
13. Throttle Control.....900-1000 RPM
14. Throttle Friction Lock.....Set
15. Radios.....Set
16. Autopilot.....Test/Set
17. Autopilot.....OFF
18. Flight Director.....OFF
19. Flight Instruments.....Check/Set
20. Navigation.....Configure
21. Transponder.....Set
22. CABIN PWR 12V Switch.....OFF
23. Flight Controls.....Free/Correct
24. Electric Trim.....Test/Set for Takeoff
25. Flaps.....0°-10°
26. Windows.....Closed/Locked
27. Lights.....As Required
28. Brakes.....RELEASE/Test

NORMAL TAKEOFF

1. Flaps.....0°-10°
2. Throttle.....FULL IN
3. Mixture.....Set for Takeoff
4. Airspeed.....Indicating
5. Eng. Instruments.....GREEN
6. Rotate.....55-60 KIAS
7. Climb Speed.....70-80 KIAS
8. Flaps.....UP

ENROUTE CLIMB

1. Airspeed.....70-85 KIAS
2. Throttle.....FULL OPEN
3. Mixture.....Set for Altitude

CRUISING

1. Power.....2100-2700 RPM
2. Elevator Trim.....Set
3. Mixture.....Set for Altitude
4. Lights.....As Needed

DESCENT

1. Mixture.....Set for Altitude
2. Flight Instruments.....Set
3. Fuel Selector Valve.....BOTH

BEFORE LANDING

1. Seats.....Upright/Locked
2. Seatbelts.....Fasten/Test
3. Fuel Selector.....BOTH
4. Mixture Control.....Set for Altitude
   FULL RICH <3000ft
5. Lights.....As Required
6. Autopilot.....OFF
7. CABIN PWR 12V Switch.....OFF

LANDING

1. Airspeed (flaps up).....75 KIAS
2. Flaps.....As Desired
   0°-10° below 110 KIAS
   10°-30° below 85 KIAS
3. Airspeed (full).....65-70 KIAS

BALKED LANDING

1. Throttle.....FULL IN
2. Flaps.....Retract to 20°
3. Climb Speed.....60 KIAS
4. Flaps.....10° @ 50ft
5. Climb Speed.....65 KIAS
6. Flaps.....UP
7. Climb Speed.....70-80 KIAS

AFTER LANDING

1. Flaps.....UP
2. MIXTURE.....Set for Taxi
3. LIGHTS.....As Needed

SECURING AIRPLANE

1. Parking Brake.....Set as Needed
2. Throttle.....IDLE
3. Electrical Equipment.....OFF
4. Avionics BUS 1&2.....OFF
5. Mixture.....IDLE CUTOFF
6. Magnetos.....OFF
7. Master Batt/Alt.....OFF
8. STBY BATT.....OFF
9. Beacon Light.....ON
10. Control Lock.....INSTALL
11. Fuel Selector Valve.....LEFT or RIGHT
12. Wheel chocks.....Set
13. Tie downs.....Secure
14. Post-flight.....Complete
15. FSP.....Check-in
16. Windows/Doors.....Closed/Locked

SHORT FIELD TAKEOFF

1. Flaps.....10°
2. Brakes.....Hold
3. Throttle.....FULL IN
4. Mixture.....Set for DA
5. Brakes.....Release
6. Rotate.....50-55 KIAS
7. Climb Speed.....56 KIAS
   Until 50ft
8. Climb Speed.....70-80kts
9. Flaps.....UP

SHORT FIELD LANDING

1. Airspeed (flaps up).....65-75 KIAS
2. Flaps.....FULL
3. Airspeed.....61 KIAS
4. Flaps.....UP
5. Braking.....Maximum Safe
6. Yoke.....Full Back

Taxi Lean Procedure

1. Set the throttle control to 1200 RPM.
2. Lean the mixture for maximum RPM.
3. Set the throttle control to an RPM appropriate for ground operations (800 to 1000 RPM recommended).

Takeoff Lean - Prior to takeoff from fields above 3000 feet pressure altitude, the mixture should be leaned to give maximum RPM at full throttle, with the airplane not moving.

Cruise Lean - When cruising or maneuvering at 75% power or less, the mixture may be further leaned until the EGT indicator peaks and is then enrichened 50°F.