



## CESSNA 172S Nxi & G1000 NORMAL PROCEDURES

### CHECKLIST v3-Jan-23

\*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

<b>Field</b>				
<b>Wx</b>				
<b>Gnd</b>				
<b>Twr</b>				
<b>Appr</b>				
<b>FSS</b>				
<b>Prac.</b>				

### Checklist Feedback Form



### BEFORE STARTING ENGINE

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

### STARTING ENGINE

1. Mixture Control.....IDLE CUTOFF
2. Throttle.....Open ¼ Inch
3. STBY BATT Switch
  - a. TEST- (Hold 10s, light stays on)
  - 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

### BEFORE TAXI

1. Mixture.....Set for Taxi
2. Taxi Light.....ON
3. Heat/Defrost.....As Required
4. Flaps.....Retract
5. Radios.....Monitor GND
6. Taxi area.....Check Clear
7. Brakes.....Release & Test

### BEFORE TAKEOFF (Run-up)

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

## **CLIMB**

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

## **CRUISE**

1. Power.....2100-2700 RPM
2. Elevator Trim.....Set
3. Mixture.....Set for DA

## **DESCENT**

1. Mixture.....Set for DA
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 DA  
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°
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
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

## **ESP Disable Steps**

ESP may be disabled ONLY when required to practice required training maneuvers

1. FMS Large Knob.....AUX
2. FMS Small Knob.....System Setup
3. Softkey.....Setup 2
4. FMS Knob.....Push
5. Large Knob.....Stability & Protection
6. Small Knob.....Disabled
7. Stability and Protection.....DISABLED

## **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 Procedure**

Prior to takeoff from fields above 3000 feet pressure altitude, the mixture should be leaned to 50°F rich of peak 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 enriched 50°F.