

# **SUNRISE AVIATION**

## **DIAMONDSTAR-G1000**

### **PREFLIGHT INSPECTION**

1. Squawk sheet & Hobbs.....CHECK
2. Documents ..... AROW/  
GARMIN MANUAL/QK REF CARD
3. Control lock ..... REMOVE
4. Avionics Master ..... OFF
5. Avionics & Essential Bus..... OFF
6. Ignition Switch ..... OFF/KEY OUT
7. Master Switch-Battery side .....ON
8. Flaps ..... SET FOR T.O.
9. Fuel gauges.....CHECK
10. Master Switch..... OFF
11. Exterior pre-flight ..... PERFORM

### **PRE-START**

1. Rudder Pedals ..... ADJUSTED
2. Seat belts, Harnesses .....ON
3. Brakes ..... SET
5. Fuel Selector ..... BEST TANK
6. Circuit breakers ..... ALL IN
7. Avionics Master & Access ..... OFF

### **STARTING ENGINE**

1. Master Switch--Battery Side.....ON
2. Avionics fan .....CHECK
3. Prop..... HIGH RPM
4. Throttle ..... FULL
5. Oil Temp..... CHECK FOR 130° F
6. Mixture.....ENGINE COLD: RICH  
..... ENGINE HOT: LEAN
7. FuelPump ..... COLD: ON 3 SEC  
..... HOT: FUNCTION CHECK
8. Throttle ..... 1/4"
9. Mixture.....LEAN
10. Area..... CLEAR
11. Ignition Switch ..... START

- ..... MIX RICH AS ENG. CATCHES
12. Throttle ..... 1000 RPM
13. Oil pressure.....CHECK
14. Alternator.....ON
15. Ammeter.....CHECK
16. Essential Bus .....CHECK
17. Fuel Totalizer ..... SET

### **PRE-TAXI**

1. Strobe.....ON
2. Flaps ..... FULL, RETRACT
3. Mixture ..... LEANED SLIGHTLY
4. Avionics Master .....ON
5. GPS Database & Ops .....CHECK
6. ATIS, Altimeter .....RECEIVED
7. Fuel ..... SWITCH TANKS
8. Clearance .....RECEIVED
9. Ground Control.....CONTACT

### **TAXI**

1. Brakes and Steering..... CHECK
2. Mag Compass ..... CHECK
3. Attitude indicator .....CHECK
4. Heading Indicator .....CHECK
5. Turn Coordinator .....CHECK

### **ENGINE RUNUP & PRE-TAKEOFF**

1. Nosewheel straight..... PARK
2. Area..... CLEAR
3. Brakes ..... SET
4. Fuel ..... SWITCH TANKS
5. Mixture ..... RICH
6. Throttle ..... 2000 RPM
7. Engine Gauges .....CHECK
8. Prop..... CYCLE
9. Mixture ..... CHECK & SET RICH
10. Alternate Air .....CHECK

CONTINUED

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11. MAGS. (R-B-L-B) 175 MAX DROP  
..... (50 MAX DIFFER.)
12. Ammeter..... CHECK WITH FLAPS
13. Throttle .....IDLE CHECK
14. Throttle ..... 1200 RPM
15. Flight Instruments.. CHECK & SET
16. Fuel ..... BEST TANK
17. Fuel Pump .....ON
18. Flaps ..... SET T.O. & CHECK
19. Throttle Friction ..... SET
20. Mags/Master.....CHECK
21. Doors and Windows ..... CLOSED
22. Elevator Trim..... SET
23. Controls ..... FREE & CORRECT
24. Radios ..... SET
25. AutoPilot..... FUNCTION CHECK
26. Fuel Timer ..... START
27. Transponder  
.....SET CODE, STANDBY

#### **NORMAL TAKEOFF**

1. Door& Canopy..... CLOSED  
..... **CHK ANNUN.**
2. Runway Items  
..... LIGHTS, CAMERA, ACTION
3. Throttle ..... FULL
3. RPM, Oil Pressure.....CHECK
4. Rotate..... 60 KTS
5. Climb ..... Vx
6. Flaps .....RETRACT @ 500' AGL

#### **ENROUTE CLIMB (1000' AGL)**

1. Fuel Pump ..... OFF
2. MP ..... 25"
3. RPM ..... 2400
4. Airspeed ..... Vy
5. Mixture..... LEAN 13gph/CK EGT

#### **CRUISE**

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1. Power ..... REDUCE
2. Mixture .....LEAN , CHECK EGT
3. Fuel  
..... PUMP ON, SWITCH @ 30 MIN

#### **LANDING**

1. Fuel Pump .....ON
2. Gas..... BEST TANK
3. Undercarriage .....DOWN
4. Mixture ..... SET
5. Prop..... SET
6. Brakes .....CHECK
7. Lights.....ON
8. Engine gauges .....CHECK
9. Seat belts ..... SECURE

#### **POST LANDING-CLEAR OF RUNWAY**

1. Lights..... OFF AS NECESSARY
2. Fuel Pump ..... OFF
3. Flaps .....UP
4. Radios ..... SET

#### **SHUT DOWN**

1. Throttle ..... 1000 RPM
2. Radios, Intercom & Electric ... OFF
3. Mags ...OFF BRIEFLY, THEN ON
4. Mixture .....IDLE CUT OFF
5. Mags ..... OFF, KEY OUT
6. MASTER ..... OFF

#### **SECURING AIRCRAFT**

1. Tiedown.....THREE POINTS
2. Chocks ... ONE WHEEL MINIMUM
3. Control Lock .....INSTALLED
4. Hobbs and Tach .....RECORDED
5. Prop..... ONE BLADE VERTICAL
6. Headsets & Checklists REMOVED
7. Canopy &Door..... LOCKED

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