Cirrus SR-22 Flight Operations Checklist

Preflight (Interior)

- Weather .....
- Weight & Balance ..... **VERIFY OK**
- Fire Extinguisher & Hammer .. **ON BOARD**
- TODO

Before Starting Engine

- Preflight Inspection ..... **COMPLETED**
- Passengers ..... **BRIEF**
  - **S**eat Belts, **A**/C, **F**ire, **E**xit, **T**raffic/Talking, CAPS
- Seat Belts ..... **ADJUST & SECURE**
- CAPS Pin ..... **REMOVE**

Starting Engine

- Brakes ..... **HOLD**
- Ignition Key ..... **INSERTED**
- Battery Masters 2 & 1 .... **ON, CHECK 24V**
- Strobe Lights ..... **ON**
- Propeller Area ..... **CLEAR**
- Oil Temperature ..... **CHECK**

NORMAL START

- Mixture ..... **FULL RICH**
- Power Lever ..... **FULL FORWARD**
- Fuel Pump ..... **PRIME, then BOOST**
  - Prime for 5 secs until fuel flow reaches 15 gph
- Power Lever ..... **OPEN ¼ INCH**
- Ignition Switch ..... **START**
- Power Lever ..... **1000 RPM**

HOT START IF OIL TEMP > 160°F

- TODO ..... **TODO**
- TODO ..... **TODO**
- TODO ..... **TODO**

FLOODED START

- Fuel Pump ..... **OFF**
- Mixture ..... **LEAN**
- Power Lever ..... **FULL FORWARD**
- Ignition Switch ..... **START**
- Power Lever ..... **RETARD**
- Mixture ..... **SLOWLY ADVANCE TO RICH**

AFTER ENGINE START

- Alternator Masters 1 & 2 ..... **ON**
- Avionics Master ..... **ON**
- Engine Parameters ..... **CHECK GREEN**

Before Taxiing

- Weather Information ..... **OBTAIN**
- Taxi Clearance (Radio 2) ..... **OBTAIN**
- Altimeter ..... **SET**
- Flaps ..... **UP**
- Mixture ..... **LEAN as rqd.**

Taxiing

- Brakes ..... **CHECK**
- HSI Orientation ..... **CHECK**
- Attitude Indicator ..... **CHECK**
- Turn Coordinator ..... **CHECK**

Before Takeoff (Run-up)

- CAPS Pin ..... **REMOVED**
- Flight Controls ..... **FREE & CORRECT**
- Trim ..... **SET TAKEOFF**
- Altimeter ..... **SET**
- Flight Instruments ..... **CHECK**
- Flaps **50%**
- Transponder ..... **SET**
- Autopilot ..... **CHECK**
- Navigation & GPS ..... **SET**
- Fuel Quantity ..... **CONFIRM**
- Fuel Selector ..... **SWITCH TANK**
- Fuel Pump ..... **BOOST**
- Doors ..... **CLOSE & LATCH**
- Mixture ..... **FULL RICH or as rqd.**
- Brakes ..... **HOLD**
- Power Lever ..... **1700 RPM**
- Pitot Heat & Lights ..... **ON**
- Annunciators ..... **CHECK CLEAR**
- Alternator Load ..... **CHECK BOTH > 0**
- Alternator Voltage ..... **CHECK 28V**
- Pitot Heat & Lights ..... **as rqd.**
- Magnetos ..... **CHECK L & R**
  - Check RPM drop < 150, RPM differential < 75
- Engine Parameters ..... **CHECK GREEN**
- Power Lever ..... **1000 RPM**
- Mixture ..... **LEAN as rqd.**
- Flight Plan ..... **OPEN**
- Takeoff & Abort Plan ..... **BRIEF**
- Takeoff Clearance (Radio 1) ..... **OBTAIN**

Maximum Power GPH (Pressure Altitudes)

27.1 (SL) 26.2 (1,000') 25.1 (2,000') 24.3 (3,000')
23.6 (4,000') 22.8 (5,000') 22.1 (6,000') 21.4 (7,000')
20.5 (8,000') 19.9 (9,000') 19.5 (10,000')

Takeoff

- Fuel Pump ..... **BOOST**
- Mixture ..... **FULL RICH or as rqd.**
- Transponder ..... **SET**
- Lights ..... **ON**
- Brakes ..... **RELEASE**
- Power Lever ..... **FULL FORWARD**
- Propeller ..... **CHECK 2700 RPM**
- Engine Parameters ..... **CHECK GREEN**
- Elevator ..... **ROTATE (70–73 KIAS)**
- At 500 ft, CAPS ..... **CALLOUT "Available"**
- At 80 kts, Flaps ..... **UP**
- Best Angle V_X ..... 78 (SL) 82 (10,000')
- Best Rate V_Y ..... 101 (SL) 95 (10,000')

Climb

- Power ..... **TODO set to what?**
- Mixture ..... **TODO when to lean?**
- Engine Parameters ..... **CHECK GREEN**
- Fuel Pump ..... **BOOST**
- Flaps ..... **UP**
- Enroute Climb ..... **110–120 KIAS**

Cruise

- Lights ..... **as rqd.**
- Fuel Pump ..... **OFF**
- Power ..... **SET**
- Mixture ..... **LEAN as rqd.**
  - Best Power: 75°F rich of peak EGT, power < 75%
  - Best Economy: 50°F lean of peak EGT power < 65%
- Engine Parameters ..... **CHECK GREEN**
- Fuel Selector ..... **SWITCH as rqd.**

Cruise Power Settings

- TODO .....

Descent

- Altimeter ..... **SET**
- Lights ..... **ON**
- Fuel Selector ..... **FULLEST TANK**
- Mixture ..... **RICHEN as rqd.**
- Brake Pressure ..... **CHECK**

Before Landing

- Seat Belts ..... **SECURE**
- Fuel Pump ..... **BOOST**
- Mixture ..... **FULL RICH or as rqd.**
- Flaps ..... **DEPLOY**
- Approach (Flaps UP) ..... **100 KIAS**
- Approach (Flaps 50%) ..... **90 KIAS**
- Approach (Flaps 100%) ..... **80 KIAS**
- Short Field (Flaps 100%) ..... **77 KIAS**

Go-Around

- Autopilot ..... **DISENGAGE**
- Power Lever ..... **FULL FORWARD**
- Flaps **50%**
- Airspeed ..... **75–80 KIAS**
- Flaps ..... **UP**

After Landing

- Power Lever ..... **1000 RPM**
- Fuel Pump ..... **OFF**
- Flaps ..... **UP**
- Lights ..... **as rqd.**
- Pitot Heat ..... **OFF**

Shutdown

- Fuel Pump ..... **OFF**
- Power Lever ..... **IDLE**
- Ignition Switch ..... **OFF, then BOTH**
- Mixture ..... **CUTOFF**
- All Switches ..... **OFF**
- Ignition Switch ..... **OFF**
- ELT ..... **NOT TRANSMITTING**