

Kolb Mk III (N616DR)

Preflight Inspection:

Cockpit:

Master Switch – “on”

Verify Battery Charge

Strobe Light – Test

Fuel Pump – Test

Master Switch – “off”

Aircraft Documentation – Current, **stowed** in aircraft

Fire Extinguisher – **Secure**

Verify Adequate Fuel Quantity for Flight

Fuel Caps – On & Verify air vents are **unobstructed**

Drain fuel sample – check for water

Engine:

All Wires, Hoses – In place, **secure**

Coolant - **Check**, verify adequate level

Spark Plugs – Check wire caps **secure**

Air Filters – Check **secure**

Carb Cables – Check **secure**

Carb Boots – Check for cracks and **secure**

Muffler Attachment – Check **secure**, incl. springs

Prop – Check **secure**, free movement

Empennage:

Data Plate – **Secure**

Tail Panels (6) General Structure & Fabric - **Undamaged**

Stab Leading Edge Attachments – **Secure**

Flying Wires – **Secure, tight**

Elevators – **Free** movement

Rudder – **Free** movement

Hinges – **Secure**, hinge pins safetied

Flying Wires Wing Nut – Check **secure**, safety clip

Bellcrank – **Secure**, free movement

Elev Cable Attachments – **Secure**

Tailwheel Cables & Springs – **Secure**, safety wired

Wings:

Wing General Structure & Fabric – **Undamaged**

U-Joint Attachment - **Secure**

Flap Push-Pull Tube – **Secure**

Aileron Push-Pull Tube – **Secure**

Hinges – **Secure**, hinge pins safetied

Flap – **Free** movement

Aileron – **Free** movement

Wing Tip – Rock up & down, verify **secure**

Lift Strut – **Pins & safety clips**, both ends

Leading Edge – Uniform, **undamaged**

Landing Gear – Tire OK, strut **secure**

Brake & Fluid line – **Secure**, no fluid leaks,

Wing spar attach pin – **Secure**, safety clip'd

Nose:

Windshield – **Secure**

Gap Seal – **secure** at rear attachments

Pitot Tube – Safety cover removed

Static Port – **Unobstructed**

Antennas:

Secure

– **Preflight Complete** –

Kolib Mk III (N616DR)

Flight Procedures: 2SI 690L-70

Engine Start:

Choke – "on" (lever forward)
Master Switch – "on"
Elec. Fuel Pump – "on"
Throttle – Closed
Brakes – Set
EIS switch – "on"
Area – "Clear!"
Starter – Hit it!
Idle RPM – Around 1900
Choke – "closed" (lever aft)

Before Takeoff:

Controls – Free & Correct
Brakes – Check
Altimeter – Set for Field Elevation
Coolant Temp – Min 150 deg for Takeoff
Fuel Pump – "on"
Radio switch – "on"
Strobe switch – "on"

Takeoff / Climb:

Throttle – Smoothly advance to Full
RPM – Takeoff 5800
Rotate – 40 mph
Climb - • Best Rate (Vy) – 60 mph
• Best Angle (Vx) – 55 mph
Fuel Pump – "off" after 1000 agl

Cruise:

Normal Cruise: 4500-5600 RPM
Max continuous output: 6250 RPM
CHT: Max 300 °F

EGT: Max. 1200F

Normal Speed Range: 55 – 85 mph
Vne: 100 mph

Descent:

Best glide (idle) – 60 mph (no flaps)
Deadstick glide – 65 mph (1 notch flaps)

Approach / Landing:

Max flaps speed, 1 notch – 65 mph
Max flaps speed, 2 notch – 55 mph
*Fuel Pump – "on"
Final – 60 mph
Short Final – 55 mph
Fly it all the way down!
Stall – 42-45 mph
After Landing – Fuel pump "off"

Shut Down:

Strobe Switch – "off"
Radio Switch – "off"
EIS Switch – "off"
Master Switch – "off"

Power Settings:

6250 – Full
5800 – Max. Cruise
4800 – 75%
4300 – 65%
4100 – 55%

Fuel Consumption:

6250 – 6 gph
5800 – 5 gph
4800 – 4 gph