

VH-XVG

Inj ECU Engine Pri Coilpack Sec Coilpack Pri Inj and ECU Feed Sec Inj and ECU Feed Pri Pump Sec Pump Pri Master Sec Master Pri Alt Sec Alt

Engine start check list

- 1 ECU switch to "normal"
- 2 Mixture knob to "normal"
- 3 LOP/Advance switch off
- 4 Sec master on - verify alternator light flashing, verify EFIS starts booting
- 5 Pri master on - verify alternator light flashing, wait for EFIS to boot
- 6 Verify primary and secondary voltages, 12.7 to 13.2
- 7 Cycle Sec master OFF, then ON, verify EFIS stays powered

- 8 ECU Primary ON
- 9 ECU Secondary ON
- 10 Verify display on, enter security code
- 11 Left fuel pump ON - verify 40+ psi fuel pressure
- 12 **Start engine**
- 13 Verify primary alternator charging, primary voltage 13.7 to 14.7
- 14 Verify secondary alternator charging, secondary voltage 13.7 to 14.7
- 15 ECU switch to "Secondary", Primary ECU OFF - engine continues to run
- 16 ECU Primary ON, ECU switch to "Normal"
- 17 ECU switch to "Primary", Secondary ECU OFF - engine continues to run
- 18 Secondary ECU ON, ECU switch to "Normal"
- 19 Avionics MASTER ON (other displays + GPS will boot)



Runup

- 1 Throttle to 1700 RPM
- 2 Pri coilpack off - engine continues to run - max 50 RPM drop
- 3 Pri coilpack on - engine RPM comes back up
- 4 Sec coilpack off - engine continues to run - max 50 RPM drop
- 5 Sec coilpack on - engine RPM comes back up
- 6 Pri injector supply off - engine continues to run, injector displays flat
- 7 Pri injector supply on - engine continues to run, injector displays OK
- 8 Right fuel pump ON - verify pressure
- 9 Left fuel pump OFF - engine continues to run and fuel pressure is 40 psi
- 10 Cycle propeller pitch, verify rpm drop
- 11 Throttle to idle



Takeoff

- 1 Verify mixture nominal, advance switch off
- 2 Verify A/C compressor is OFF
- 3 Both fuel pumps ON
- 4 Throttle full



Cruise (or climbing through TBD thousand feet AGL)

- 1 One fuel pump OFF, verify fuel pressure maintained



Approach and land

- 1 Both fuel pumps ON



Taxi

- 1 One fuel pump OFF



Engine shut-down (electrical items only - more to do here)

- 1 Secondary alternator OFF
- 2 Primary alternator OFF
- 3 Secondary master OFF
- 4 Primary master OFF
- 5 ECU to "Primary", then Secondary ECU OFF
- 6 Primary ECU OFF, engine stops
- 7 Both fuel pumps OFF



Colour Code

ORANGE	in on
GREY	is off
Green	is Injectors on Primary ECU
Yellow	is injectors on Secondary ECU
Blue	is injectors on BOTH ECU's