

SportCruiser SVAP+ Checklist

Dynon SkyView HDX/Garmin 796



PREFLIGHT INSPECTION

INTERIOR

Documents.....VERIFY
 IgnitionOFF
 MASTER BAT.....ON
 EFIS 1.....ON/EMS
 Pitch & Roll Trim.....NEUTRAL
 Fuel Quantity.....CHECK
 Menu - Engine Tools - Clear Timer
 Menu - Engine Tools - Fuel
 Fuel Computer Quantity.....ADJUST
 Fuel Selector.....FULLEST TANK

Flaps.....30°
 Circuit Breakers.....CHECK IN
 Exterior Lights.....CHECK [ON - OFF]
 EFIS 1.....OFF
 MASTER BAT.....OFF

EXTERIOR

L Flap.....CHECK
 L Aileron.....CHECK
 L Wing Tip.....CHECK
 Pitot/Static Port.....CHECK
 L Wing Leading Edge.....CHECK
 L Wing Fuel.....VISUAL CHECK
 L Wing Locker.....SECURE
 L Landing Gear/Tire.....CHECK
 Nose Landing Gear/Tire.....CHECK
 Cowling.....CHECK SECURE
 Propeller.....CHECK SECURE
 Engine Oil.....CHECK
 Oil Level ≥50% in flat

R Wing Locker.....SECURE
 R Landing Gear/Tire.....CHECK
 R Wing Fuel.....VISUAL CHECK
 R Wing Leading Edge.....CHECK
 R Wing Tip.....CHECK
 R Aileron Trim Tab.....NEUTRAL
 R Aileron.....CHECK
 R Flap.....CHECK
 Temp Probe(s).....CHECK
 R Fuselage.....CHECK

Horizontal Stabilizer.....CHECK
 Vertical Stabilizer.....CHECK
 Elevator.....CHECK
 Elevator TrimCHECK
 Anti-Servo Tab.....CHECK
 Rudder.....CHECK
 Rudder Trim Tab.....CHECK
 Antennas (GPS/Comm/Nav/ELT).....CHECK
 L Fuselage.....CHECK
 R Wing Fuel.....SAMPLE
 Gascolator Fuel.....SAMPLE
 L Wing Fuel.....SAMPLE

ENGINE START

Rudder Pedals.....ADJUST
 Parachute Pin.....STOW IN CONSOLE
 Circuit Breakers.....CHECK IN
 Seat Belt-Shoulder Harness.....ON
 LSA,BRS & Passengers.....BRIEF
 Brakes.....SET & HOLD
 MASTER BAT.....ON
 MASTER GEN.....ON
 EFIS 1.....EMS LOADED/DISPLAYED
 (Load preferred PFD/MAP/Engine Pages)
 Strobe Lights.....ON
 Fuel Pump.....ON (verify + pressure)
 Throttle.....IDLE (cold), 5% (warm)
 Choke.....ON (cold), OFF (warm)
 Prop Area.....CLEAR
 Ignition.....START (10 sec max)
 Throttle.....2000 RPM
 Engine Instruments.....CHECK
 Oil Pressure > 12 psi within 10 sec

EFIS 2.....ON
 Avionics.....ON
 Flaps.....UP

After Engine warms, when at a stop only

Throttle.....2500 RPM

BEFORE TAXI

Brakes.....TEST
 XPNDR.....AUTO/VFR
 Garmin 796 GPS.....ACCEPT/MAP
 WX/ATIS.....OBTAIN
 Altimeter.....SET
 Flight Plan.....ENTER/ACTIVATE
 Canopy.....SECURE
 Wind Correction.....APPLY
 Flight Instruments.....CHECK
 Hotspots/Taxi Route.....BRIEF

BEFORE TAKEOFF - RUN-UP

Flight Controls.....FREE & CORRECT
 Initial Altitude & Heading.....SET
 Brakes.....HOLD
 FUEL.....STATE QUANTITY
 Oil Temp>120°F
 Throttle.....4000 rpm
 Engine Instruments.....CHECK
 Oil Pressure 30 to 102 psi
 Fuel Pressure 2.2 to 5.8 psi

L & R Ignition.....CHECK
 ≤ 300 rpm drop, ≤ 115 rpm difference
 Throttle.....IDLE
 TrimSET FOR TAKEOFF
 Flaps.....SET FOR TAKEOFF
 XPNDR.....SET
 Fuel Pump.....ON
 Lights.....ON
 Canopy.....LOCKED/CHECKED

Departure and Emergency Brief

- Departure Plan/Known Hazards/Obstacles
- On takeoff Roll
- After lift off, Below 1,000ft AGL
- Above 1,000ft AGL and/or turned Crosswind
- Review Takeoff Checklist

TAKEOFF - CLIMB

Throttle.....MAX (≥ 4900 rpm)
 Engine Instruments.....GREEN
 Airspeed.....CONFIRM INCREASING
 V_R 45 KIAS,
 Climb 62-70 KIAS or ≥ 5200 rpm
 Above 200' AGL
 Flaps.....UP
 Oil Temp.....MONITOR
 Normal 190 - 230 F, Max 266 F

CRUISE

Throttle.....5000 - 5500 RPM
 Landing Light.....AS REQUIRED
 Fuel Pressure.....MONITOR
 Engine Instruments.....GREEN
 FUEL.....STATE QUANTITY

PRE-MANUEVER

Fuel PumpON
 Fuel Selector.....FULLEST TANK
 Lights.....ON
 FUEL.....STATE QUANTITY
 Area.....CLEAR



DESCENT - LANDING

Fuel Pump.....ON
 Fuel Selector.....FULLEST TANK
 Seat Belts.....SECURE
 Landing Light.....ON
 Throttle (downwind).....4500 RPM
 Throttle (abeam).....3000 RPM
 Flaps (< 75 KIAS).....SET LANDING
 Approach.....65 KIAS

GO AROUND

Throttle.....MAX
 Flaps.....12°
 Climb.....62-70 KIAS
 Above 200' AGL
 Flaps.....UP

AFTER LANDING - TAXI

Flaps.....UP
 Radios.....SET
 Lights.....AS REQUIRED

SHUT DOWN

Parachute Pin.....INSTALL
 Engine/Flight Time.....RECORD
 XPNDR.....VFR/1200
 Throttle.....IDLE
 Fuel Pump.....OFF
 Landing & Strobe Lights.....OFF
 Nav Lights.....ON
 Avionics.....OFF
 EFIS 1 & 2.....OFF
 Ignition.....OFF
 MASTER GEN.....OFF
 MASTER BAT.....OFF

SECURING

Controls.....LOCK (use seat belt)
 Canopy/Windows.....CLOSE & LOCK
 Tie-downs/Chocks.....SECURE

EMERGENCY PROCEDURES

Items in bold are to be committed to memory

ENGINE FAILURE DURING TAKEOFF ROLL

Throttle Control.....IDLE
Brakes.....APPLY
Ignition.....OFF

ENGINE FAILURE AFTER TAKEOFF

Airspeed.....60 KIAS
 Flaps.....AS NECESSARY
Fuel Selector.....OFF
Ignition Switch.....OFF
Master GEN/BAT.....OFF
 Land.....STRAIGHT AHEAD
 BRS should be used if unable safe landing

ENGINE FAILURE DURING FLIGHT

Airspeed.....60 KIAS
Best place to land.....SELECT
 If Altitude allows restart:
Fuel Pump.....ON
Fuel Selector.....FULLEST or SWITCH
 Ignition Switch.....CHECK
 Throttle.....IDLE
 Choke.....ON/OFF
 Carb Heat.....ON/OFF
Ignition.....START
 If altitude permits, declare emergency on 121.5, activate ELT, squawk 7700.

After final flap selection:
All Switches.....OFF (right to left)
Fuel Selector.....OFF
 Canopy.....UNLOCK
 BRS should be used if unable safe landing

KADS

ATIS (972-628-2439)	133.40
Ground	121.60
Tower (972-628-2420)	126.00
Approach (972-615-2500)	124.3/124.25
Atlantic (Fuel - 972-713-7000)	122.85

ENGINE FIRE DURING START

Fuel SelectorOFF
ThrottleMAX
Ignition SwitchOFF
Master BAT & GENOFF
 AirplaneEGRESS

ENGINE FIRE IN FLIGHT

Fuel SelectorOFF
ThrottleMAX
Cabin HeaterPUSH OFF
Ignition SwitchOFF
 AutopilotDISENGAGE
 Airspeed108 KIAS
 If altitude permits, declare emergency on 121.5, activate ELT, squawk 7700.

After extinguished or for landing After final flap selection:
 AirspeedMaintain 60 KIAS
 All SwitchesOFF (right to left)
 CanopyUNLOCK

ELECTRICAL FIRE IN FLIGHT

Autopilot.....DISENGAGE
Master BAT & GENOFF
 Other switches.....OFF
 LEAVE ON IGNITION SWITCH
Cabin HeaterPUSH OFF
 Ventilation.....OPEN
 Land as soon as Practical

GENERATOR FAILURE

If GEN LO/OFF annunciation:
 AutopilotDISENGAGE
Master BAT & GENON
Throttle.....Above 3000 RPM
 Master BAT & GEN.....OFF then ON

If generator failure indication persists:
 Master GEN.....OFF
 Unnecessary EquipOFF
 Voltmeter.....MONITOR
Land as soon as Practical

LOST COMMUNICATIONS

RADIO.....Verify Frequency
 Volume/Squelch.....Adjust
 Push To Talk.....Verify Transmitting

If 2-way communications not re-established

Squawk.....7600
 Land.....As soon as practicable
 (Recall Light Gun Signals)

CANOPY OPEN IN FLIGHT

Airspeed<75 KIAS
 PowerAS REQUIRED
 CanopyLEAVE ALONE

Do not try to close the Canopy
 Land as soon as practical
 Do not perform slipping

BRS ACTIVATION

Airplane is uncontrollable and/or a forced landing on extreme inhospitable terrain cannot be avoided:

SpeedBelow 120 KIAS
Ignition Switch.....OFF
Fuel Selector.....OFF
Master BAT & GENOFF
 Activating Handle - PULL, Hard Continuously
 SeatbeltsFASTEN
 Emergency body position.....ASSUME

V₅₀ – 31 KIAS	V_{S1} – 37 KIAS
V_R – 45 KIAS	V_G – 60 KIAS
V_X – 56 KIAS	V_Y – 62 KIAS
V_{FE} – 75 KIAS	V_A – 88 KIAS
V_{NO} – 108 KIAS	V_{NE} – 138 KIAS



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