

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_R – 45 KIAS

V_X – 56 KIAS

V_{FE} – 75 KIAS

V_{NO} – 108 KIAS

V_{S1} – 37 KIAS

V_G – 60 KIAS

V_Y – 62 KIAS

V_A – 88 KIAS

V_{NE} – 138 KIAS

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After Hours Manager
972.735.9099 ext. 107

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