

**SUPPLEMENT NO.03 TO DOC.NO. CR-MM-1-0-00****INSTALLATION OF DYNON SKYVIEW SYSTEM WITH THE  
SV-HDX1100 DISPLAY IN THE PS-28 CRUISER AIRPLANE****LIST OF AIRPLANES COVERED BY THIS SUPPLEMENT**

| Airplane model | Serial No.                  | Note   |
|----------------|-----------------------------|--|
| PS-28 Cruiser  | From S/N C0644<br>inclusive | Valid also for the airplanes the<br>owners of which decide to replace<br>the original SV-D1000 by the SV-<br>HDX1100 display |
|                |                             |  |



**RECORD OF REVISIONS**

| Rev. No. | Revision name | Changed pages | Issue date | Date and signature |
|----------|---------------|---------------|------------|--------------------|
|          |               |               |            |                    |





**CHAPTER 1 GENERAL**  
No Change

**CHAPTER 2 LIMITATIONS / MAINTENANCE CHECKS****2.5 Terms and list of aircraft regular maintenance works**

The table in the “Chpt. 12, Instruments and Avionics”, in the section 2.5.2 “Tables of inspection tasks” in the CR-MM-1-0-00, last revision, is changed as follows:

| <b>SCHEDULED ANNUAL PERIODICAL INSPECTION OR<br/>INSPECTION AFTER 100 FH</b> |   |         |              |
|--|---|---------|--------------|
|  |   |         | Page: 6 of 7 |
| Chpt.  | Prescribed works  | Made by | Checked by   |
| <b>11</b>  | <b>Electrical System</b>  |         |              |
|  | Check attachment and condition of battery.  |         |              |
|  | Check level of battery charge.  |         |              |
|  | Perform battery capacity test- applied for annual inspection only.                    |         |              |
|  | Check condition, attachment and integrity of wiring.                                  |         |              |
|  | Check condition and securing of plug/socket outlets.                                  |         |              |
|  | Check condition of switches, fuses and circuit breakers.                              |         |              |
|  | Check condition of the landing light.   |         |              |
| <b>12</b>  | <b>Instruments and Avionics</b>   |         |              |
|  | Check general condition and attachment of the instrument panel.                       |         |              |
|  | Check condition and attachment of instruments.  |         |              |
|  | Check condition and attachment of the pitot tube.                                     |         |              |
|  | Check cleanness of air inlet holes of pitot tube.                                     |         |              |
|  | Check attachment and securing of hoses to the instruments.                            |         |              |
|  | Check for pitot-static system tightness (see 12.4.1) (with 2 years periodicity).      |         |              |
|  | Visually check condition of navigation and communication instruments.                 |         |              |
|  | Perform compensation of ADAHRS magnetic heading - applied for annual inspection only. |         |              |
|  | Check condition of COMM, ELT, XPDR, NAV antennas and OAT probe.                       |         |              |
| <b>13</b>  | <b>Heating and Ventilation System</b>   |         |              |
|  | Check cleanness and passage of air inlet holes.                                       |         |              |
|  | Check line and integrity of the heating and ventilation system hoses.                 |         |              |
|  | Check condition and attachment of the heat exchanger.                                 |         |              |
|  | Check of functionality of rod and flap.   |         |              |
| All  | Check for corrosion.  |         |              |
|  | Check for hard handling.  |         |              |



**CHAPTER 3 FUSELAGE**

No Change

**CHAPTER 4 WING**

No Change

**CHAPTER 5 TAIL UNIT**

No Change

**CHAPTER 6 CONTROL SYSTEM**

No Change

**CHAPTER 7 EQUIPMENT**

No Change

**CHAPTER 8 LANDING GEAR**

No Change

**CHAPTER 9 FUEL SYSTEM**

No Change

**CHAPTER 10 POWER UNIT**

No Change

**CHAPTER 11 ELECTRICAL SYSTEM**

**11.2.1 Switches**

The “**Tables 11-1, 11-2, 11-3** ” in the **CR-MM-1-0-00**, last revision, are replaced by the new tables as follows:

| <b>Switches – instrument panel with the SkyView HDX1100 system</b> |  |
|--|--|
| <b>Designation</b>   | <b>Description</b>                                 |
| <b>MASTER BAT</b>  | Main switch - switch of battery, intercom          |
| <b>MASTER GEN</b>  | Main switch - switch of generator                  |
| <b>MFD 1</b>   | Switch of SV-HDX1100 left display                  |
| <b>MFD 2</b>   | Switch of SV-HDX1100 right display                 |
| <b>AVIONICS</b>  | Switch of NAV/COM, GPS, XPDR                       |
| <b>FUEL P</b>  | Switch of electric fuel pump                       |
| <b>NAV L</b>   | Switch of position lights                          |
| <b>STROBE</b>  | Switch of strobe lights                            |
| <b>LDG L.</b>  | Switch of landing light                            |
| <b>COCKPIT L</b>   | Rotary switch of cockpit lamp (with dimmer)        |
| <b>INSTR L</b>   | Rotary switch of instrument lighting (with dimmer) |
| <b>FLAPS UP/DOWN</b>   | Switch of flaps control                            |

**Tab.11-1:** Switches



### 11.2.2 Circuit breakers

| Circuit breakers – instrument panel with the SkyView HDX1100 system |       |  |
|---|-------|--|
| Designation   | Value | Description  |
| COMM  | 5A    | Circuit breaker of VHF transceiver   |
| IC  | 1A    | Circuit breaker of intercom  |
| NAV   | 2A    | Circuit breaker of optional navigation device  |
| MFD 1   | 7,5A  | Circuit breaker of SV-HDX1100 left display   |
| MFD 2   | 7,5A  | Circuit breaker of SV-HDX1100 right display  |
| FUEL P  | 3A    | Circuit breaker of electric fuel pump  |
| FLAPS   | 3A    | Circuit breaker of flaps   |
| TRIM  | 1A    | Circuit breaker of trims   |
| STROBE  | 5A    | Circuit breaker of strobe lights   |
| GPS   | 4A    | Circuit breaker of GPS   |
| XPDR  | 5A    | Circuit breaker of transponder   |
| NAV L   | 5A    | Circuit breaker of position lights   |
| LDG L   | 4A    | Circuit breaker of landing light – till S/N 0570   |
|   | 3A    | Circuit breaker of landing light – from S/N 0571 or for replacement by Kuntzleman 11-06854 light |
| INT L   | 2A    | Circuit breaker of instrument lighting and cockpit lamp  |
| PROP  | 5A    | Circuit breaker of electrical adjustable propeller   |
| 12V   | 5A    | Circuit breaker of 12V socket  |

Tab.11-2: Circuit breakers

### 11.2.2 Fuses

| Fuses – instrument panel with the SkyView HDX1100 system |  |
|--|--|
| Designation  | Description                              |
| 1A SIGN. DOOR  | Fuse of unlocked canopy signaling system |
| 25A DC GEN   | Fuse of generator                        |
| 25 A BATTERY   | Fuse of battery                          |

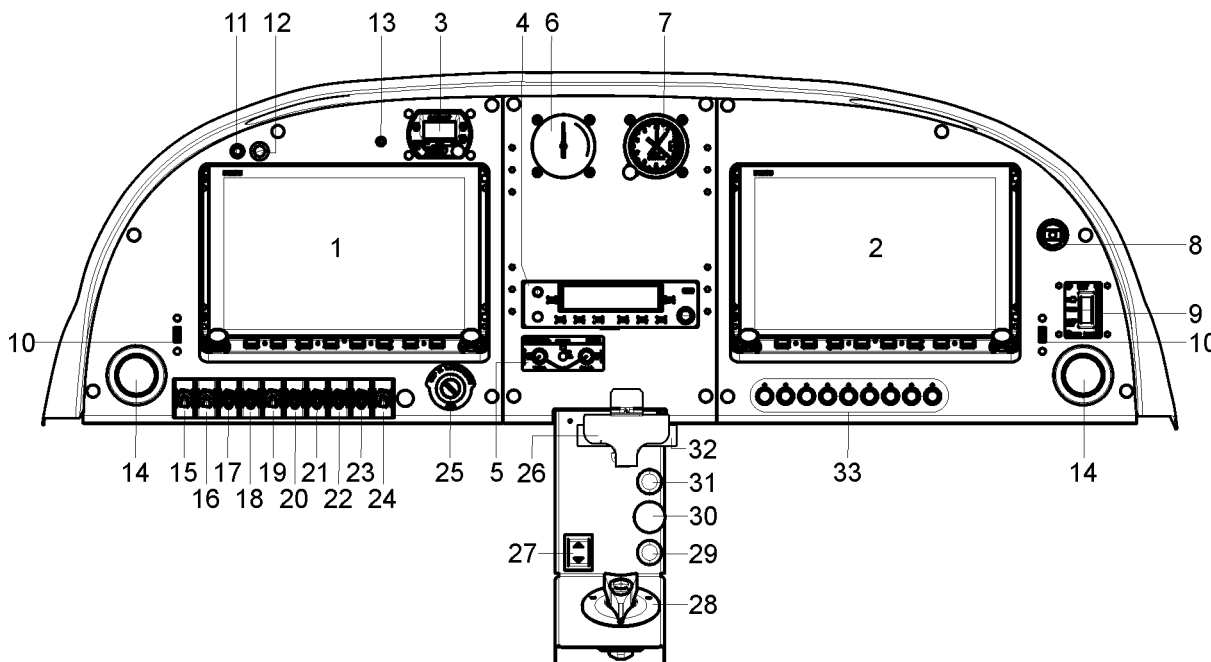
Tab.11-3: Fuses



**CHAPTER 12 INSTRUMENTS AND AVIONICS**

**12.1 General**

This chapter provides information about pitot-static system, instruments and avionics. The aircraft is equipped with the instrument panel that contains all flight, navigation, and engine instruments that are required for VFR operations. Figure 12-7 show the typical instrument panel used for PS-28 Cruiser equipped with the SkyView system with the SV-HDX1100 displays.



- |                                    |   |
|------------------------------------|---|
| 1 SV-HDX1100 left display (MFD 1)  | 18 MFD 2 circuit breaker                |
| 2 SV-HDX1100 right display (MFD 2) | 19 AVIONICS switch                      |
| 3 Transponder control unit         | 20 FUEL P circuit breaker               |
| 4 GNC 255A NAV/COM                 | 21 NAV L circuit breaker                |
| 5 PM3000 intercom                  | 22 STROBE circuit breaker               |
| 6 Airspeed indicator               | 23 LDG L circuit breaker                |
| 7 Altimeter                        | 24 COCKPIT L switch                     |
| 8 Socket 12 V                      | 25 Keyed ignition switch                |
| 9 ELT remote switch                | 26 BRS activation handle cover (option) |
| 10 USB port                        | 27 FLAPS UP/DOWN switch                 |
| 11 STALL WARNING TEST button       | 28 FUEL selector valve                  |
| 12 STALL WARNING light             | 29 PARKING BRAKE knob                   |
| 13 EMS ALARM yellow warning light  | 30 CARBURETOR HOT AIR knob              |
| 14 Air vent                        | 31 CABIN HEATER knob                    |
| 15 MASTER BAT switch               | 32 BRS activation handle (option)       |
| 16 MASTER GEN switch               | 33 Circuit breakers                     |
| 17 MFD 1 circuit breaker           |   |

**Fig. 12-7:** PS-28 Cruiser typical instrument panel with SkyView system

NOTE: Current instrument panel arrangement is stated in the Pilot’s Operation Handbook.





### 12.2.6 Dynon SkyView system

Dynon SkyView system is the next generation of glass panel avionics for light sport aircraft. The system architecture is shown on Fig. 12-20.

The SV-HDX1100 displays are very bright, high-resolution touch screens and contain the main control CPU, graphics processor, and terrain data-base. Displays can act as a Primary Flight Display (PFD) with Synthetic Vision, an Engine Monitoring System (EMS), and a Moving Map in a variety of customizable screen layouts.

The most used functions are accessed via two rotary/multi-direction joysticks. Almost all other in flight commands are available via eight buttons.

Every SkyView system display and module is connected by two independent power and data buses. The failure of any bus connection or module results in automatic fail-over to a working bus or module.

Two SV-BAT-320 Lithium-Ion (Li-Ion) backup batteries provide over an hour of backup power to displays and modules.

SV-EMS-220 engine module measures engine parameters - engine speed, manifold pressure, oil temperature and pressure, exhaust gas temperature, coolant temperature, fuel quantity, voltage, current, fuel pressure, fuel flow, flap and trim position.

The SV-ADAHRS-200 is a complete MEMS-based attitude reference and air data computer, integrated with a digital compass. This allows easier mounting and higher accuracy calibration between the system components.

The GPS position is provided by the SV-GPS-250 module.

Convenient program and data updates via USB memory stick

NOTE: For detailed information refer to SkyView SE, Classic, Touch HDX System Installation Guide (P/N 101320-029, Revision AD or later) and and Dynon HDX Pilot's User Guide (P/N 102949-003, Revision C or later).

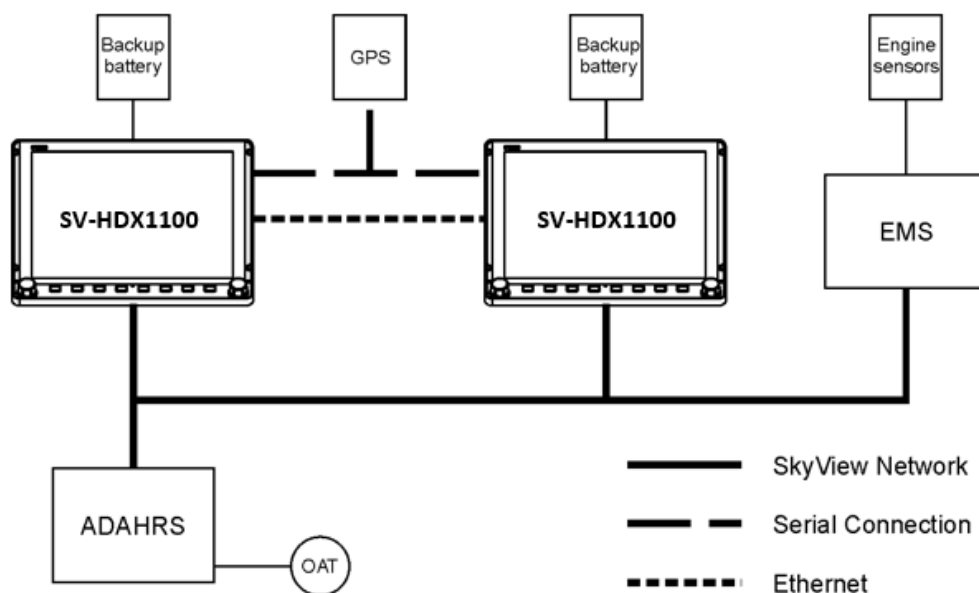


Fig. 12-20: SkyView HDX1100 system architecture



## 12.3 General

### 12.3.29 Removal of the SV-HDX1100 display

NOTE: Removal is the same for both displays.

Type of maintenance: line

Authorization to perform:

- Repairman (LS-M) or Mechanic (A&P)

Tools needed:

- 5/64" hex drive tool
- screwdriver

- Set the **MASTER BAT, MFD 1 / MFD 2** switches to OFF.
- Unscrew the screws (6, Fig. 12-35) and release the display (1).
- Pull gently on the sides of the display (1) and carefully remove it.
- Disconnect the connectors (2; 3; 4; 5) from the display.
- Remove the screw (8) with the washer (9) and disconnect the bonding strip (7).
- Install the protective covers on the rear connectors of the display.

### 12.3.30 Installation of SV-HDX1100 display

NOTE: Installation is the same for both displays.

Type of maintenance: line

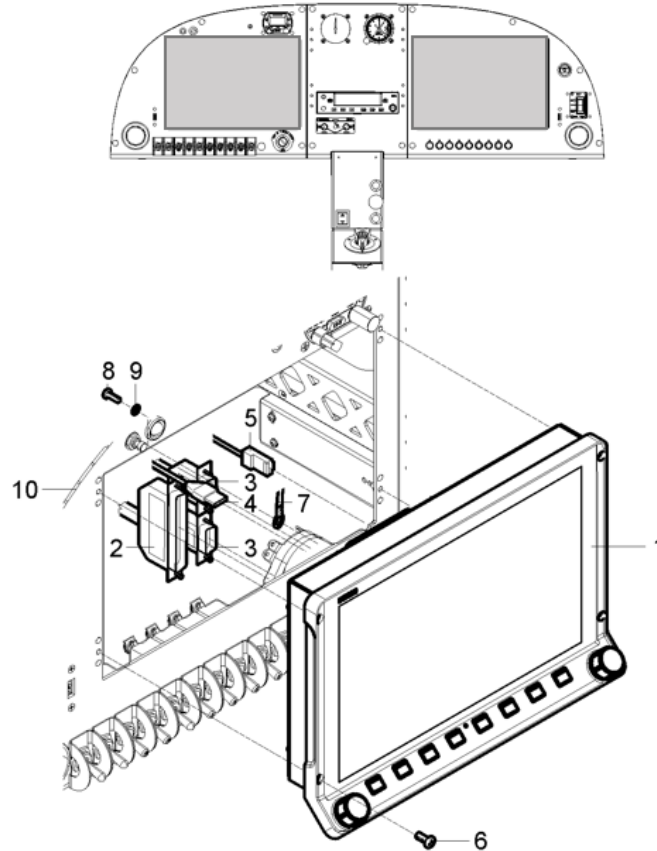
Authorization to perform:

- Repairman (LS-M) or Mechanic (A&P)

Tools needed:

- 5/64" hex drive tool
- screwdriver

- Connect the connectors (2; 3; 4; 5, Fig. 12-35) to the display (1).
- Using the screw (7) with the washer (8) attach the bonding strip (7) to the display.
- Slide the display (1) to the panel (7) and fasten it by means of the screws (7).
- Set the **MASTER BAT, MFD 1 / MFD 2** switches to ON and do an operational test of the system.



- |                             |                     |
|-----------------------------|---------------------|
| 1 SV-HDX1100 display        | 7 Bonding strip     |
| 2 DB37 display connector    | 8 Screw             |
| 3 SkyView network connector | 9 Washer            |
| 4 USB connector             | For information:    |
| 5 Ethernet connector        | 10 Instrument panel |
| 6 Screw (4 pcs.)            |                     |

**Fig. 12-35:** SV-HDX1100 display removal / installation

### 12.1.1 SkyView system adjustment

#### 12.4.9.1 SkyView system upgrade

Dynon Avionics provides a free-of-charge upgrade of a firmware for all Dynon's products and is continuously adding new functions to these products and enhances its properties. These activities are monitored by Czech Sport Aircraft which also evaluates whether the last Dynon firmware versions is compatible with the CSA's airplane SkyView setting and through the SB-CR-035 Service Bulletin issuance (newest firmware version publication) CSA will inform airplane operators regarding the related system changes and actualization procedures to update SkyView system.

SkyView SV-HDX1100 screen firmware upgrade automatically updates all related modules connected to the internal network with the SkyView screens. That's why all devices connected within the system have to be turned on during the actualization procedure. The firmware actualization has to be performed separately on each SV-HDX1100 display (left and right).



The actualization procedure requires to copy all upgrade related files to the SkyView display from a provided USB flash drives (separately for each display due to different setting of each display) which have to be plugged into the related USB ports (marked as **MFD 1**, **MFD 2**).

Map Databases updates are not controlled by CSA’s Service Bulletins. Publication of the Map Databases new versions is to be monitored entirely by an airplane owner / operator. A free-of-charge Terrain Databases updates provided by Dynon Avionics (REG-04-EUROPE HIRES, WORLD WIDE TERRAIN-LOW RES, WORLD WIDE TERRAIN-VERY LOW RES) are needed to be performed separately on each SkyView display. A free-of-charge default Map Database updates provided by Dynon Avionics (BASE MAP – EUROPE) and a paid updates of the Aviation and Obstacle Databases provided by Pocket FMS and Jeppesen (AVDATA and OBDATA) are performed on one display only. The second display will be automatically synchronized through the internal network, once it has been activated.

An USB flash drive intended for the files transfer during the actualization procedure is supplied with every SkyView SV-HDX1100 display. To start a firmware actualization a 50 MB free disk space is needed.

**CAUTION:** DURING THE ACTUALIZATION PROCEDURE, CONSTANT ELECTRICAL SUPPLY HAS TO BE MAINTAINED AND SECURED AND THE CONNECTED USB FLASH DRIVES CANNOT BE UNPLUGGED NOR MANIPULATED.

**CAUTION:** RANDOM AND UNAUTHORIZED MANIPULATION OF THE SKYVIEW SYSTEM SETTINGS IS PREVENTED BY THE SYSTEM LOCK FEATURES AND BY A PASSWORD PROHIBITING AN ACCESS TO THE SYSTEM SETTINGS AND TO THE ACTUALIZATION FUNCTIONS. MAP DATABASES ACTUALIZATION AND DATA EXPORT FROM SKYVIEW SYSTEM IS LEFT ACCESSIBLE.

**WARNING:** UNAUTHORIZED ENTRY TO THE SYSTEM SETTINGS AND A FAILURE TO FOLLOW PROCEDURES FOR SYSTEM ACTUALIZATION MAY CAUSE INCORRECT FUNCTIONALITY OR TOTAL FAILURE OF THE WHOLE SKYVIEW SYSTEM!

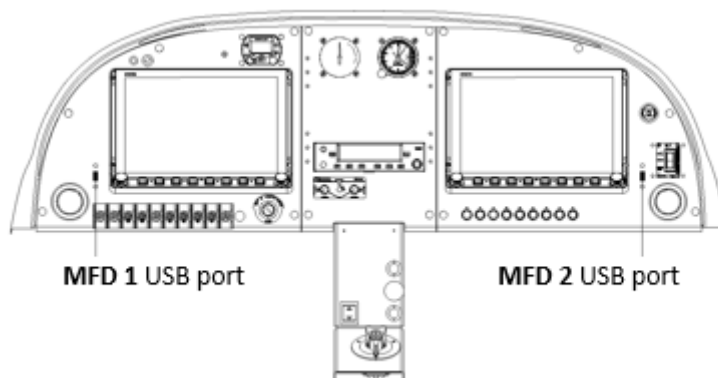


Fig. 12-42: USB ports location

**Procedure to perform SkyView system upgrade:**

- (a) Check issuance of the actual revision of the Service Bulletin SB-CR-035 from CSA website.
- (b) Follow the instructions specified in the Service Bulletin.

**Procedure to perform Map Databases update:**

- (a) Check the issuance of actual revisions for the map databases from providers' websites.
- (b) Download the required databases and save them to the given USB flash drive.
- (c) Turn on **MASTER BAT** and the left display. Once the display started, plug the USB flash drive in the **MFD 1** USB port and press and hold buttons 7 and 8 until the menu SYSTEM SOFTWARE (LOAD and EXPORT) for file transfer appears.
- (d) With a given cursor, activate a function LOAD FILES and select related files to transfer. By pressing button 8 LOAD, download related files from USB drive to the display system. Once files are downloaded, press the button 8 DONE to return to the menu.
- (e) Continue update procedure of other databases according to the paragraph (d).
- (f) To complete the update procedure, press button 2 EXIT.
- (g) Turn on the right display. Once the display started, wait until the transfer updated map database from the right display.
- (h) To download the update terrain databases to the right display plug the USB flash drive in the **MFD 2** USB port and press and hold buttons 7 and 8 until the menu SYSTEM SOFTWARE (LOAD and EXPORT) for file transfer appears and then proceed according to point (d) to (f).
- (i) Turn off the left and right display and **MASTER BAT**.

**Checking the last versions of the Map Databases within the SkyView system:**

1. Turn on **MASTER BAT**, press button 7 and turn on the **MFD 1**. Hold button 7 during the system booting sequence until the SETUP MENU for system setting appears.
2. With a given cursor activate a function LOCAL DISPLAY SETUP and then INSTALLED DATABASES.
3. Check the last installed databases.
4. The complete the last installed database check, press button 2 EXIT.
5. Press button 7 and turn on the **MFD 2**. Hold button 7 during the system booting sequence until the SETUP MENU for system setting appears and then proceed according to point (2) to (4).
6. Turn off the **MFD 1**, **MFD 2** and **MASTER BAT**.



#### 12.4.9.2 SkyView system calibration procedures

CAUTION: DURING THE CALIBRATION PROCEDURE, CONSTANT ELECTRICAL SUPPLY HAS TO BE MAINTAINED AND SECURED.

CAUTION: RANDOM AND NON-QUALIFIED MANIPULATION OF THE SKYVIEW SYSTEM SETTINGS IS PREVENTED BY THE SYSTEM LOCK FEATURES AND BY A PASSWORD PROHIBITING AN ACCESS TO THE SYSTEM SETTINGS AND TO THE ACTUALIZATION FUNCTIONS. ACCESSING THE CALIBRATION FUNCTIONS IS POSSIBLE WITH A PROCEDURE DESCRIBED BELOW.

- (a) Switch on **MASTER BAT**, press button 7 and turn on **MFD 1**. Hold button 7 during system booting sequence until the SETUP MENU for setting up the system appears.
- (b) With a cursor in the section „HARDWARE CALIBRATION“ choose:
  1. EMS CALIBRATION for calibration of the following:
    - AILERN CALIBRATION
    - ELEV CALIBRATION
    - FLAPS CALIBRATION
    - FUEL TANK 1 (LEFT) CALIBRATION
    - FUEL TANK 2 (RIGHT) CALIBRATION
    - FUEL FLOW CALIBRATION
    - TACHOMETER CALIBRATION
  2. ADAHRS CALIBRATION“ for calibration of the following:
    - ALTITUDE ADJUST
    - COMPASS CALIBRATION
    - OAT OFFSET
    - ZERO PRESSURE AIRSPEED CALIBRATION
- (c) According to the instructions displayed on the screen and described below, perform the required calibration.
- (d) Once calibration is done, exit the SETUP MENU by pressing the button 2 EXIT.
- (e) Turn off the **MFD 1** and **MASTER BAT**.

##### **Aileron trim calibration**

1. With a cursor, select an option AILERN CALIBRATION.
2. Press button 8 RECAL.
3. Set the aileron trim tab to the max. upper position (FULL RIGHT WING UP).
4. Press button 8 SET.
5. Set the aileron trim tab to the max. lowest position (FULL RIGHT WING DOWN).
6. Press button 8 SET.
7. Set the aileron trim tab to the center position (TAKE-OFF).
8. Press button 8 DONE to complete the calibration procedure.

**Elevator trim calibration**

1. With a cursor, select an option ELEV CALIBRATION.
2. Press button 8 RECAL.
3. Set the elevator trim tab to the max. lowest position (FULL DOWN).
4. Press button 8 SET.
5. Set the elevator trim tab to the max. upper position (FULL UP).
6. Press button 8 SET.
7. Set the elevator trim tab to the center position (TAKE-OFF).
8. Press button 8 DONE to complete the calibration procedure.

**Flaps calibration**

1. With a cursor, select an option FLAPS CALIBRATION.
2. Press button 8 RECAL.
3. Set the flaps to the 0° - max. upper position (FLAP STOP 1).
4. With a cursor, fill in a value for flaps settings to 0° +00.
5. Press button 8 SET.
6. Set the flaps to the 12° - take-off position (FLAP STOP 2).

Note: To set flaps to the 12° angle, use appropriate protractor.

7. With a cursor, fill in a value for flaps settings to 12° +12.
8. Press button 8 SET.
9. Set the flaps to the 30° - max. lowest position (FLAP STOP 3).
10. With a cursor, fill in a value for flaps settings to 30° +30.
11. Press button 8 SET.
12. Press button 7 DONE to complete the filling procedure of the values for flaps settings.
13. Press button 8 DONE to complete the calibration procedure.

**Fuel sensors calibration**

1. Drain all fuel from both fuel tanks (see Chapter 9.5.2).
2. With a cursor, select an option FUEL TANK 1 (LEFT) CALIBRATION.
3. Press button 8 RECAL.
4. With a cursor, fill in a value for total volume of the fuel tank. 57 liters 057.
5. Press button 8 NEXT.
6. Check whether the left tank is empty.
7. Press button 8 START.
8. To the left tank add exactly 5 liters of fuel.
9. Let the fuel level to stabilize.
10. Press button 8 ADD.
11. Check the value in the upper right corner of the screen TOTAL LITERS ADDED for the total amount of added fuel.
12. Repeat the procedure according to the point 8 till 11 until the 50 liters are displayed. In that moment a warning will appear informing that the sensor measuring value (voltage) has not been changed and to confirm that 5 liters have been added.
13. Press button 8 YES.
14. Press button 7 FULL.
15. Press button 8 DONE.

Note: Repeat the same procedure also for the right fuel tank FUEL TANK 2 (RIGHT) CALIBRATION.

**Fuel flow calibration**

Note: A standard fuel flow meter Electronics International Red Cube FT-60 is installed in the airplane for which a calibration constant 68000 is set as default.

CAUTION: TO ADJUST THE CALIBRATION CONSTANT FOR BETTER PRECISION PLEASE REFER TO THE INSTRUCTIONS SPECIFIED IN THE SKYVIEW INSTALLATION GUIDE, DOCUMENT 101320-016, REVISION Q OR LATER, SECTION,, SV-EMS-220/221 INSTALLATION AND CONFIGURATION, CHAPTER FUEL COMPUTER CONFIGURATION.

1. With a cursor, select an option FUEL FLOW CALIBRATION.
2. In the parameter PUL/GAL (PIN C37 P14) set the new value for calibration constant.
3. Press button 8 ACCEPT.



**Tachometer calibration**

CAUTION: FOR A STANDARD ENGINE INSTALLATION ROTAX 912 S/ULS A DEFAULT VALUE 1.00 IS SET FOR THE SYSTEM TO BE ABLE TO PRECISELY MEASURE THE RPM OF THE ENGINE. THIS VALUE CANNOT BE CHANGED.

1. With a cursor, select an option TACHOMETER CALIBRATION.
2. Set the value to 1.00.
3. Press button 8 ACCEPT.

**Altitude adjust**

1. Check the internal tightness of the pitot-static system.
2. Warm up the SkyView system for a 30 min period.
3. According to the procedures for checking and adjusting altimeters find out the proper value for a correct altitude indication.

CAUTION: TO FIGURE OUT THE PROPER VALUE FOLLOW THE INSTRUCTIONS SPECIFIED IN THE SKYVIEW INSTALLATION GUIDE, DOCUMENT 101320-016, REVISION Q OR LATER, SECTION SV-ADAHRS-200/201 INSTALLATION AND CONFIGURATION, CHAPTER PERFORMING PITOT-STATIC CHECKS.

4. With a cursor, select an option ALTITUDE ADJUST.
5. Set the proper value for a correct altitude indication (with adding or subtracting from the actual value)
6. Press button 8 ACCEPT.

**Compass calibration (ADAHRS)**

CAUTION: COMPASS CALIBRATION OF THE SKYVIEW SYSTEM HAS TO BE PERFORMED IN THE AREA SPECIFICALLY DESIGNATED FOR THESE ACTIVITIES. (WITHOUT ANY METAL CONSTRUCTIONS, ELECTRICAL WIRINGS, NATURAL IRON ORE DEPOSITS IN VICINITY OF THE AREA, ETC.). FOR EXAMPLE COMPENSATING CIRCLE ON THE AIRPORT. DURING THE COMPASS CALIBRATION PROCEDURE, ENGINE HAS TO BE RUNNING AND ALL ELECTRICAL DEVICES ON BOARD HAVE TO BE TURNED ON.

1. Warm up the SkyView system for a 5 min period.
2. With a cursor, select an option COMPASS CALIBRATION.
3. Functionality check of SV-GPS-250 – all information about the magnetic intensity, magnetic inclination, magnetic declination, information about the location, time and date have to be displayed in green.
4. Place the aircraft precisely to the magnetic north direction and lock it against any movement.
5. Press button 4 NORTH and wait for the system to compensate the data.
6. Place the aircraft precisely to the magnetic east direction and lock it against any movement.
7. Press button 5 EAST and wait for the system to compensate the data.



8. Place the aircraft precisely to the magnetic south direction and lock it against any movement.
9. Press button 6 SOUTH and wait for the system to compensate the data.
10. Place the aircraft precisely to the magnetic west direction and lock it against any movement.
11. Press button 7 WEST and wait for the system to compensate the data.
12. Press button 8 SAVE.
13. Press button 8 FINISH.

#### **OAT offset**

1. Find out the value for the correction of the temperature (in comparison with appropriate calibrated thermometer).
2. With a cursor, select an option OAT OFFSET.
3. Set the proper value for a correct temperature indication (+/-).
4. Press button 8 ACCEPT.

#### **Zero pressure airspeed calibration**

Note: This calibration can help improve the accuracy of indication at very low airspeeds.

**CAUTION: BEFORE PERFORMING THE CALIBRATION THE AIRPLANE MUST BE LOCATED IN ABSOLUTE CALMLY SPACE (WITHOUT WIND AND DRAUGHT) AND MUST BE CHECKED FOR TIGHTNESS OF THE PITOT-STATIC SYSTEM.**

1. Warm up the SkyView system for a 30 min period.
2. With a cursor, select an option ZERO PRESSURE AIRSPEED CALIBRATION.
3. Press button 7 ACQUIRE.
4. Press button 8 SAVE.
5. Press button 1 BACK.

Note: By pressing the button 6 RESET the system returns to its original factory settings.

#### **12.4.9.3 SV-BAT-320 backup battery test**

Each SV-HDX1100 display has a rechargeable backup battery, it is necessary to ensure that the battery capacity is such that it will last at least 60 minutes on a full charge. Once per year, perform the battery capacity test. Procedure and replacing the battery pack is mentioned in SkyView SE. Classic, Touch HDX System Installation Guide (P/N 101320-028, Revision AC or later).



**CHAPTER 13 VENTING / HEATING**

No Change

**CHAPTER 14 AIRPLANE HANDLING**

No Change

**CHAPTER 15 AIRPLANE REPAIRS**

No Change

**CHAPTER 16 WIRING DIAGRAMS**

No Change

**CHAPTER 17 APPENDICES**

No Change



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