



**SERVICE BULLETIN**  
**SB0721 Rev - June 15, 2022**

**Saft Battery Type 425CK1 (P/N 416392)**  
**Hamilton Sundstrand P/N 5915609-2**  
**Bombardier P/N C07500016-001)**

**Field Replacement of Cell P/N 024036-000**

**1. SB Summary**

This service bulletin describes the procedure to remove and replace Saft cell type CVK420KA P/N 024036-000 per the inspection criteria on specific Saft battery type 425CK1 P/N 416392 serial numbers.

**2. Planning information**

**A. Effectivity**

Holders of the Saft battery type 425CK1 (P/N 416392) with the Saft / Hamilton Sundstrand serial numbers listed in Table 1 below.

**Table 1 Affected Saft / Hamilton Sundstrand Battery Serial Numbers**

09052002610F2 / AARR000562	0905200261D66 / AARR000576
09052002610F3 / AARR000563	0905200261D69 / AARR000579
09052002610F5 / AARR000565	090520026238B / AARR000581
0905200261D5E / AARR000568	09052002626FA / AARR000583
0905200261D61 / AARR000571	0905200263CFC / AARR000584

**B. Reason**

Cells contained within 425CK1 (P/N 416392) batteries identified in Table 1 were manufactured with suspected cell covers that are prone to cracking at the vent valve location in an as-molded condition.

**C. Description**

This service bulletin provides the instructions to remove and replace CVK420KA (P/N 024036-000) cells contained within the batteries listed above in Table 1.

**D. Compliance**

This service bulletin shall be accomplished by a qualified battery maintenance technician as a one-time cell inspection during the next scheduled maintenance activity of Saft battery type 425CK1 (P/N 416392). This is not safety related as the vent valves will function as designed due to the design of the cover.

**E. Approval**

The technical content of this service bulletin has been reviewed and accepted by SAFT. Airbus please provide approval statement for this service bulletin.

**F. Manpower**

Estimated man-hours: less than 30 minutes.

**G. Weight and balance**

No change.

**H. Electrical load data**

Not change.



**SERVICE BULLETIN**  
**SB0721 Rev - June 15, 2022**

**I. Software accomplishment summary**

N/A

**J. References**

CMM 24-32-23 Mar 03/2021  
 Saft Battery Information Sheet

**K. Publication Affected**

N/A

**L. Interchangeability of Parts**

Not affected.

**3. Material Information**

**A. Material price and availability**

For parts contact Saft at [aircraft@saftbatteries.com](mailto:aircraft@saftbatteries.com) to coordinate replacement parts.  
 - CVK420KA cells P/N 024036-000 to be provided

**B. Industry support**

If technical assistance is needed, contact Aviation Product Support at [aircraft@saftbatteries.com](mailto:aircraft@saftbatteries.com).

**C. Material necessary for each aircraft**

N/A

**D. Parts**

- Cell CVK420KA P/N 024036-000

**E. Spares**

N/A

**F. Reidentified part**

N/A

**G. Tooling**

EQUIPMENT	MINIMUM EQUIPMENT SPECIFICATION		SOURCE OR CAGE CODE	REPRESENTATIVE TYPE (MFG MODEL/CAGE)
	CHARACTERISTICS	RANGE ACCURACY TOLERANCE		
Torque wrench	Insulated	0 to 15 N-m (0 to 133 lb <sub>r</sub> -in)	Commercially Available	McMaster-Carr (7936A12)
Universal vent wrench	-	-	V09052 F6177	093365-000 413876
Equalizing resistors	-	1 Ω 3 W	F6177	164829
Cell puller tool	Fully insulated	-	F6177	416159

**4. Accomplishment instruction**

**A. General**

Observe all warnings and cautions contained in the Component Maintenance Manual (CMM) 24-32-23.

**B. Procedures**

NOTE: The ( ) are the items numbers as provided within CMM 24-32-23.



**SERVICE BULLETIN**  
**SB0721 Rev - June 15, 2022**

- Step 1. Perform 42A or 21.5A discharge to 21.0V.
- Step 2. Remove the cover complete (030) by opening the 6 latches.
- Step 3. Remove the nuts (070 and 143) and the washers (080 and 145) that attach links (090 to 130) to the cells (140).
- Step 4. Remove all links (090 to 130).
- Step 5. Attach a shorting resistor T01 to each cell.
- Step 6. After the shorting resistor is approximately room temperature then as needed fully screw the cell extractor tool T04 onto a cell terminal then pull up to remove the cells (140) until all cells have been removed.

**CAUTION:** MAKE SURE CELL POLARITY IS CORRECT, DOUBLE CHECK CELL ORIENTATION TO FIGURE 7003 - Battery layout of CMM 24-32-23.24-32-23

**NOTE:** To facilitate cell installation and make sure cell orientation is respected, first layout the cells outside the box per figure 7003 - Battery layout of CMM 24-32-23.

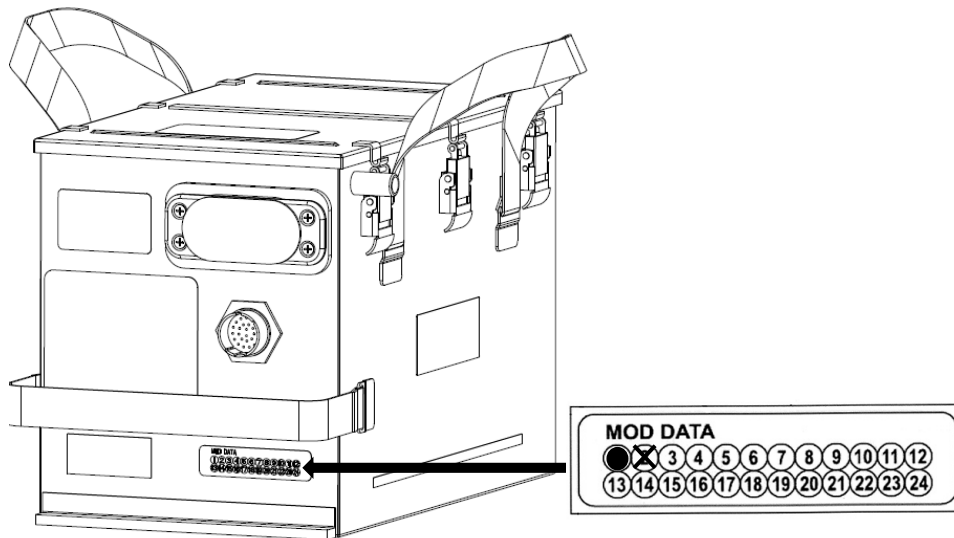
- Step 7. Install the new cells (140) starting from the end of each row following the polarity orientation per figure 7003 - Battery layout of CMM 24-32-23.
- Step 8. Install the last cell into position by carefully pushing onto both cell terminals at once using a block of soft wood (if the cell insertion is too difficult, remove one or two liner-spacers).
- Step 9. Verify, once again, the polarity of each cell according to the figure 7003 - Battery layout of CMM 24-32-23.
- Step 10. Make sure that the cell terminals lower nuts (150) are torqued according to Fits and clearances chapter of CMM 24-32-23.
- Step 11. Lightly lubricate the terminals and the links (090 to 130) with M02 (use a non-metallic paintbrush).
- Step 12. Install the links (120) equipped with thermostats T2 & T3 (260.2 and 260.3) on the cells (140) according to figure 7003 - Battery layout of CMM 24-32-23.
- Step 13. Install remainder of the links (090 to 130) on the cells (140) according to the figure 7003 - Battery layout of CMM 24-32-23.

**NOTE:** Make sure the cables of the heater harness, thermostats, and thermistors are not pinched. Strictly respect the cable path illustrated.

- Step 14. Install the thermistors S1 (260.1) and S2 (260.4) of sensor assembly (260) according to figure 7003 - Battery layout of CMM 24-32-23.
- Step 15. Install the washers (080 and 145) and nuts (070 and 143). Torque the nuts (070 and 143) according to Fits and clearances chapter of CMM 24-32-23.
- Step 16. Lightly lubricate the nuts (070 and 143) and the washers (080 and 145) with M02 (use a non-metallic paintbrush).

**SERVICE BULLETIN  
SB0721 Rev - June 15, 2022**

Step 17. Mark the mod-dot label as reflected in Figure 1 by permanently crossing out “2”.



**Figure 1 Mod-dot label marking**

Step 18. For batteries returning to service, perform the following:

- Charge per step paragraph 5-1 on page 3 of CMM 24-32-23.
- Adjust electrolyte leveling per paragraph 7-6 on page 5005 of CMM 24-32-23.
- Perform nut tightness per paragraph 7-3 on page 5005 of CMM 24-32-23.
- Install cover complete (030) by latching 6 latches.
- The battery is ready to return to service.

Step 19. For batteries to return to storage, refer to Storage section of CMM 24-32-23 on page 15001.

Step 20. The defective cells must be damaged to prevent re-use.

- Attach a shorting resistor and allow to stand for 12-24 hours.
- Remove the shorting resistor and permanently damage by bending one of the terminals.
- Any electrolyte leakage should be cleaned and dealt with as outlined in the Saft Battery Information Sheet for Nickel-Cadmium cells.
- Dispose of defective cells per with applicable transport, health and safety and recycling regulations.



**SERVICE BULLETIN**  
**SB0721 Rev - June 15, 2022**

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