Issues

INFORMATION BULLETIN No. RTC-084b

TECHNICAL CONTENT OF THIS BULLETIN IS APPROVED UNDER THE AUTHORITY OF THE DOA REF. EASA.21J.057.

1. CONCERNING:	All SportStar RTC aircraft equipped with the original type of cockpit canopy opening mechanism S1 65-74 01.
2. REASON:	Replacement of the original cockpit canopy opening mechanism with a new Overhead panel S5210200S with a modified lock S5210030S.
3. REQUIRED ACTION:	1. Remove the middle column S1 66-69 01 and the original cockpit canopy mechanism S1 65-74 01. 2. Install the modified lock S5210030S and the Retrofit Overhead panel S5210200S. 3. Record the performed installation into the Aircraft Logbook.
4. LATEST DAY OF THE ACTION:	According to decision of the aircraft operator /owner.
5. CARRIED OUT BY:	Operator / owner of the aircraft.
6. COSTS COVERED BY:	Operator / owner of the aircraft.
7. NECESSARY MATERIAL:	The material is listed in a separate appendix to this bulletin. Contact the aircraft manufacturer to order the material.
8. WORK PROCEDURE:	The work procedure is described in a separate appendix to this bulletin.
9. APPENDICIES:	Appendix to Bulletin No. RTC-084b.

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1. List of required tools and materials

The lists of required tools and materials are provided in the individual chapters of the SportStar RTC Maintenance Manual mentioned in the following text.

List of required tools:

Name	Designation/ nomenclature	Number of pieces	Position
Control wire	S5210019D	1 pc	pos. 1, Fig. 11 / pos. 8, Fig. 8
Bowden cable	059275	1 pc	pos. 2, Fig. 11 / pos. 11, Fig. 8 / Fig. 7
Screw M5x16	009821	2 pcs	pos. 4, Fig. 11
Screw M4x16	011870	2 pcs	pos. 5, Fig. 11
Adjustment screw 5,7x25	058963	1 pc	pos. 7, Fig. 11 / pos. 10, Fig. 8
Nut M5	031909	2 pcs	pos. 8, Fig. 11 / pos. 9, Fig. 8
U-shaped seal	086835	1 pc	pos. 9, Fig. 11
Centre cover	S5210017D	1 pc	pos. 10, Fig. 11
Rear cover	S5210018D	1 pc	pos. 11, Fig. 11
Screw M3x10	010982	2 pcs	pos. 12, Fig. 11
Screw M4x12	011866	4 pcs	pos. 2, Fig. 8
Button	S5210013D	1 pc	pos. 3, Fig. 8
Button housing	S5210020D	1 pc	pos. 4, Fig. 8
Guide housing	S5210014D	1 pc	pos. 6, Fig. 8
Screw M4x4	011904	1 pc	pos. 5, Fig. 8 / pos. 6, Fig. 11
Screw M4x22	007349	3 pcs	pos. 7, Fig. 8
Spring 0.8x7.1x3x13.5	506336	2 pcs	pos. 1, Fig. 8
Utility knife	-	1 pc	-
Plastic scraper	-	1 pc	-
Tape	-	1 pc	-
Drill	-	1 pc	-
Technical alcohol	-	As required	-
Cement SABA SEALTACK 750	096227	As required	-
Adhesive Loctite 480	096251	As required	-
Adhesive Loctite 243	096220	As required	-
Adhesive Emfimastic PU50	096257	As required	-
Activator SABA primer 9002	096196	As required	-
Primer coat Glasurit R-68	PI-07003	As required	-
Placard	S5210022D	1 pc	Fig. 11
Nut M5	033604	2 pcs	pos. 1, Fig. 3 / pos. 13, Fig. 11
Nut M4	033651	2 pcs	pos. 2, Fig. 3
Rivet 3,2x9,5	047590	8 pcs	pos. 3, Fig. 3
Lock assembly	S5210024S	1 pc	Fig. 10
Overhead panel assembly	S5210210S	1 pc	Fig. 6
Drill bit	ø5,4 mm; ø3,3 mm; ø6,4 mm	1 pc of each	-

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2. Removal

This section describes the removals necessary to replace the existing middle column and cockpit canopy opening mechanism with the new Overhead panel S5210200S.
References in the text refer to the SportStar RTC Maintenance Manual, unless otherwise stated.

2.1 Cockpit canopy removal

Remove the cockpit canopy according to the procedure described in Chapter 52, Subchapter 52-10, paragraph 2, item A (1) Removal – cockpit canopy.
Note: Be careful when removing and installing the cockpit canopy in order not to scratch the canopy glass.

2.2 Middle column S1 66 - 69 01 removal

Tape the canopy glass around the middle column with wide tape in two layers to prevent it from getting damaged.
Using a utility knife, cut through the bonded joint from one side and then from the other side of the column. The procedure of taping and cutting of the bonded joint is shown in Fig. 1.
Remove the original middle column,
Repeatedly apply technical alcohol to the remaining original adhesive and allow it to take effect for a brief time. The adhesive will partially soften because of the technical alcohol.
Mechanically scrape off the softened adhesive using a plastic scraper.

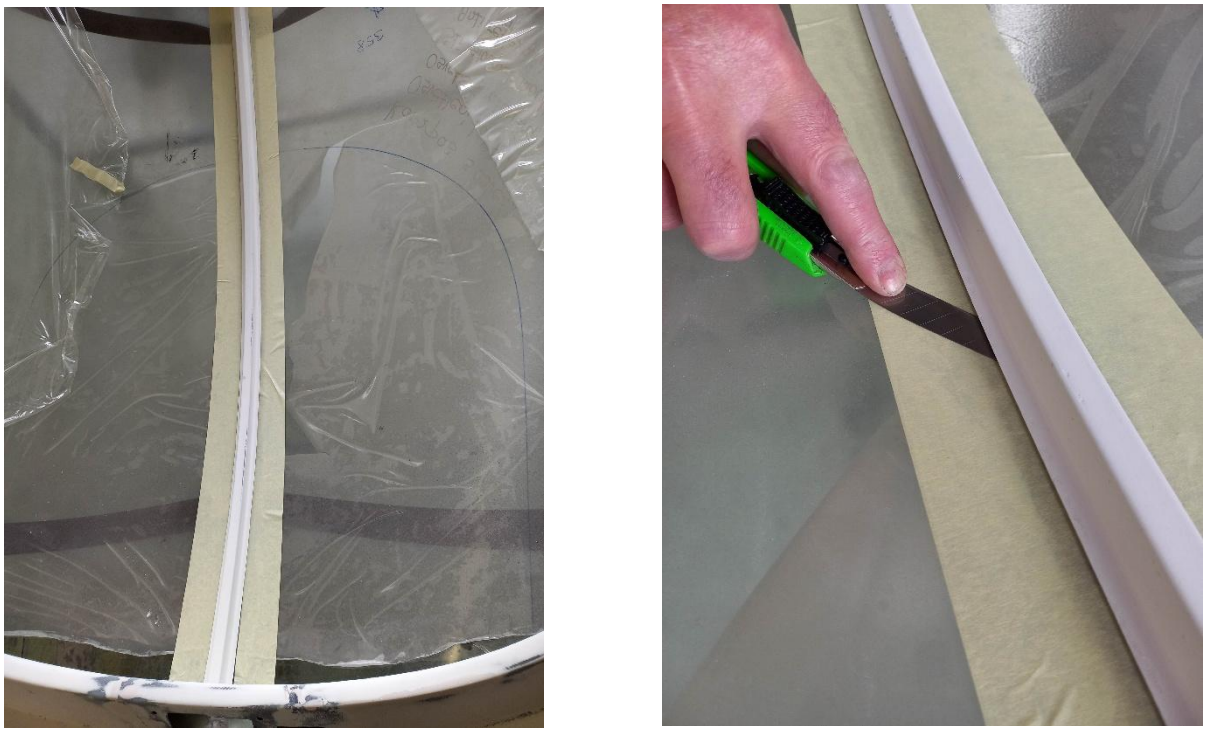


Fig. 1 The process of tapping around the middle column and then removing the column

2.3 Original lock S1 65-74 01 removal

Remove the original lock according to the procedure described in Chapter 52, Subchapter 52-10, paragraph 1, item C, procedure f) to h).

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3. Assembly

This section describes the individual steps for installing the Overhead panel S5210200S.

3.1 Hole in the canopy frame

Cut the hole in the canopy frame to hook the control wire into the lock according to Fig. 2.

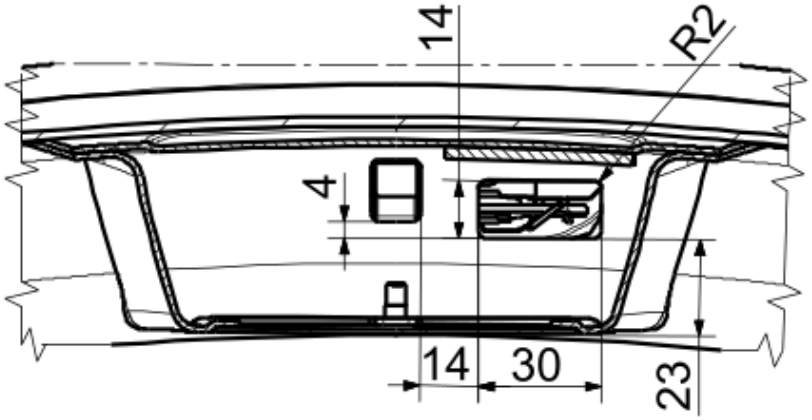
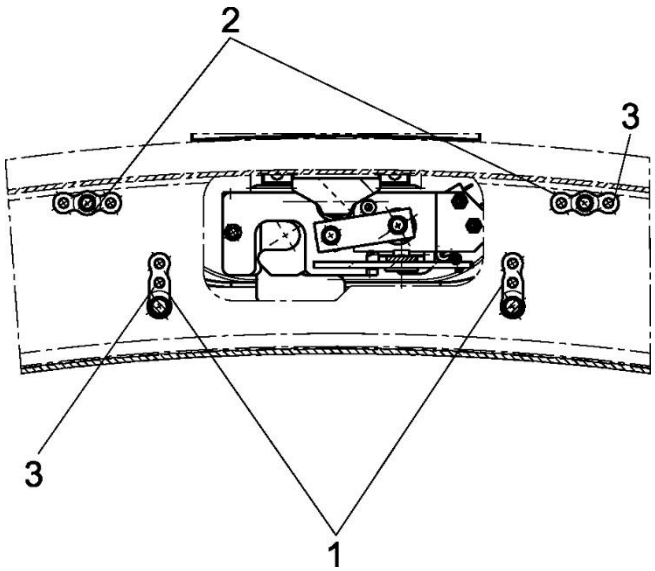


Fig. 2 Hole in the canopy frame

3.2 Riveting nut installation

At the installation location of the lock S5210024S, drill holes for the riveting nuts. Drill a ø6,4 mm hole for the M5 riveting nut (pos. 1, Fig. 3) and a ø5,4 mm hole for M4 riveting nut (pos. 2, Fig. 2). Position the nuts as shown in Fig. 3 and drill ø3,3 mm holes for the 3,2x9,5 rivets (pos. 3, Fig. 3, 8 pcs). Rivet the nuts in place using the rivet. The riveting nuts are intended for securing the M5x16 screws (pos. 4, Fig. 11).



Position	Name
1	Nut M5 (033604)
2	Nut M4 (033651)
3	Rivet 3,2x9,5 (047590)

Fig. 3 Position of the riveting nuts

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3.3 Modification of the lock handle

In the lock assembly, modify the original handle by shortening the lever to 12 mm as shown in Fig. 4. Deburr the cut surface, degrease it, and subsequently apply an aluminium alloy primer.

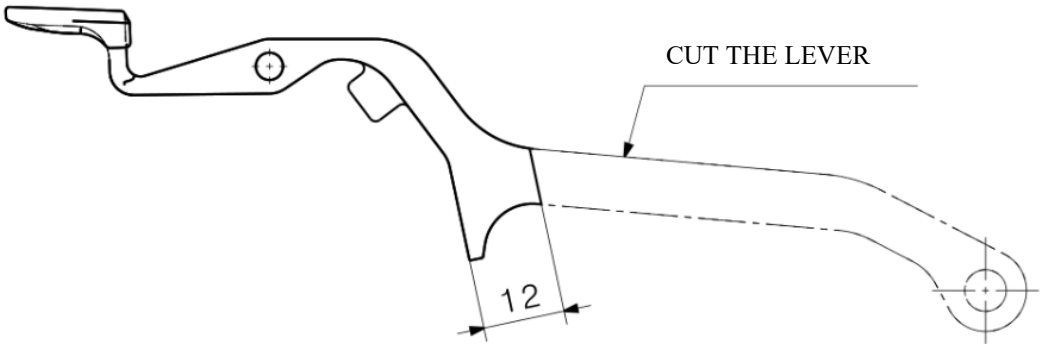


Fig. 4 Shortening the handle of the original lock

3.4 Marking the bonding location of the Overhead panel

Place the Overhead panel onto the canopy glass at the bonding location, clearly mark the outline, and tape it with wide tape in two layers as shown in Fig. 5 to prevent damaging the canopy glass.

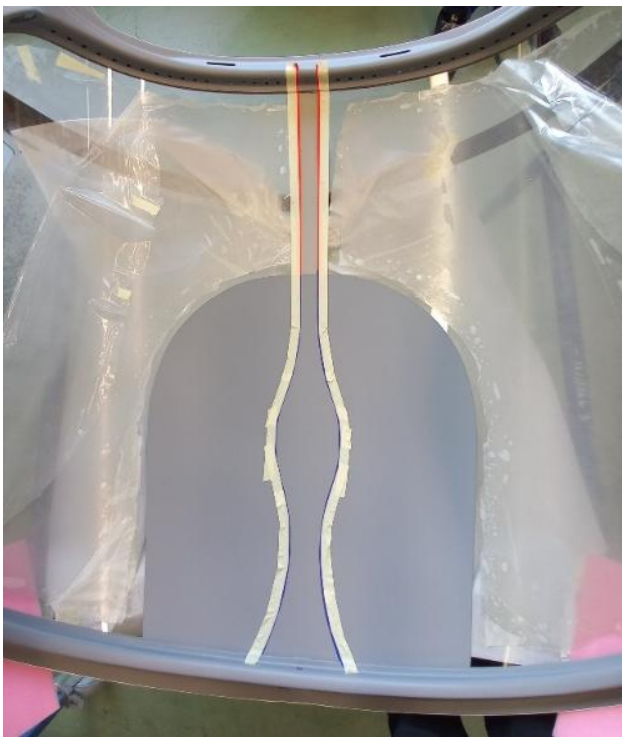


Fig 5. Surface preparation for panel bonding

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3.5 Overhead panel installation

Thoroughly degrease the bonding surfaces on the Overhead panel, including the canopy glass, with technical alcohol and allow it to take effect for 8 minutes. Before bonding, apply SABA 9002 activator to the plexiglass and allow it to take effect for 15 minutes. Bond the Overhead panel to the canopy plexiglass using SABA SEALTACK 750 cement.

Modify the 220 mm long U-shaped seal (pos. 9, Fig. 11) lengthwise by cutting off one side edge to create a flat strip that is bonded to the edge of the Overhead panel. Subsequently, degrease the modified seal with technical alcohol and allow it to take effect for 8 minutes. Bond the U- shaped seal to the edge of the Overhead Panel (as shown in Fig. 6) using Loctite 480 adhesive, spread the adhesive along the joint and press firmly together.

Secure the bonded Overhead panel assembly against movement. The adhesive curing time is 24 hours.

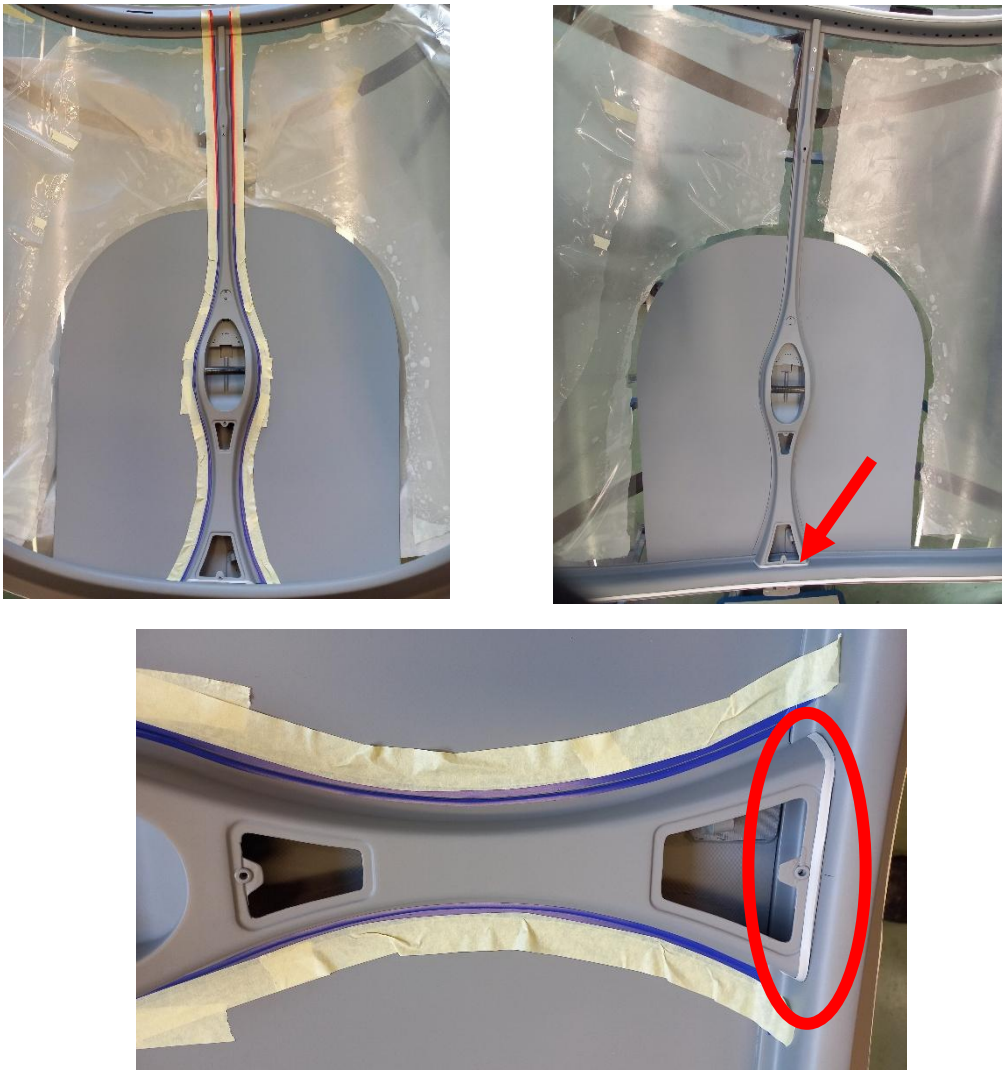


Fig. 6 Bonding procedure of the Overhead panel and U-shaped seal

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3.6 Internal mechanism installation

The installation procedure of internal mechanism is shown in Fig. 8 and Fig. 9.

Screw an M5 nut (pos. 9, Fig. 8) onto the adjustment screw (pos. 10, Fig. 8). Insert one end of the bowden cable (pos. 11, Fig. 8) into the screw head. Slightly bend the other end of the bowden cable as shown in Fig. 7 to ensure smooth guidance into the hole in the Overhead panel. Smoothly guide the bowden cable toward the internal lock release mechanism underneath the hole for the rear and centre convers. Insert the threaded part of the screw through the hole in the bracket (pos. 12, Fig. 8) and screw on the second M5 nut (pos. 9, Fig. 8). Slide the straight part of the control wire into the bowden cable through the hole in the canopy and the adjustment screw.



Fig. 7 Bending end of the bowden cable

Position the springs (pos. 1, Fig. 8) into the required position and slide the internal lock release assembly – the button housing (pos. 4, Fig. 8) and the button (pos. 3, Fig. 8), into the guide housing (pos. 6, Fig. 8). Secure the guide housing using three M4x22 screws (pos. 7, Fig. 8). Secure the button using four M4x12 screws (pos. 2, Fig. 8) – degrease the threaded part of these screws and secure them with Loctite 243 adhesive.

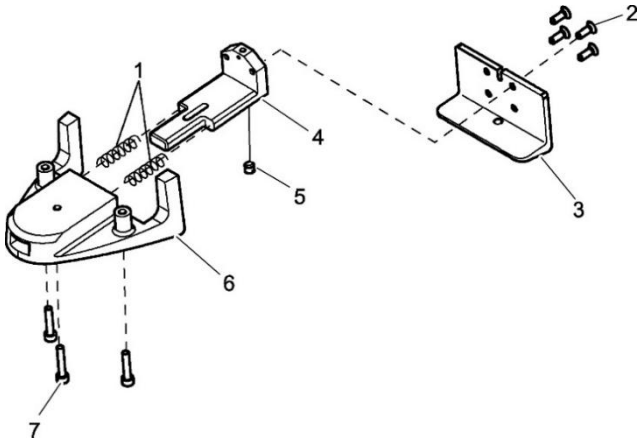
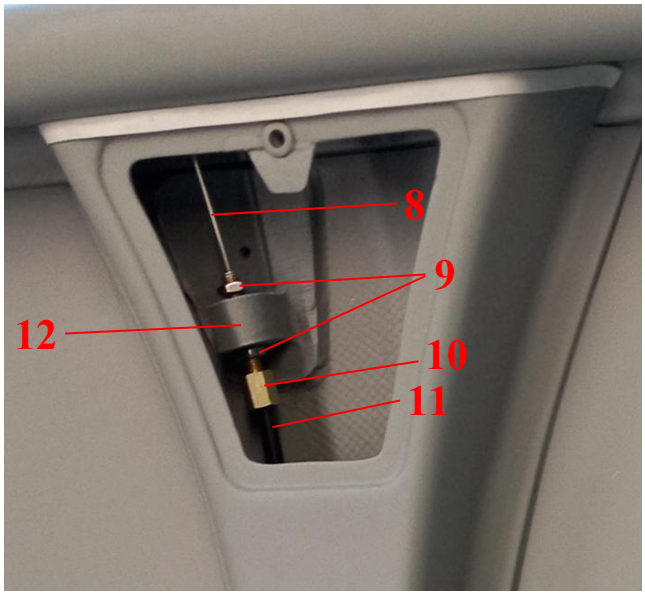


Fig. 8 Internal mechanism installation and guiding the wire into the bowden cable (page 1)

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Position	Name	Position	Name
1	Spring 0,8x7,1x32x13,5 (506336)	7	Screw M4x22 (007349)
2	Screw M4x12 (011866)	8	Control wire (S5210019D)
3	Button (S5210013D)	9	Nut M5 (031909)
4	Button housing (S5210020D)	10	Adjustment screw (058963)
5	Screw M4x4 (011904)	11	Bowden cable (059275)
6	Guide housing (S5210014D)	12	Console

Fig. 8 Internal mechanism installation and guiding the wire into the bowden cable (page 2)

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Fig. 8 Internal mechanism installation and guiding the wire into the bowden cable (page 3)



Fig. 9 Securing the guide housing and the button using screws

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Slightly pull the control wire from the bowden cable and hook the modified end of the wire into the lever within the lock assembly, as shown in Fig. 10. Insert the modified lock assembly S5210030S into its original position. Connect the connector of the switch of unsecured cockpit canopy according to AMM, Chapter 52, Subchapter 52-10, paragraph 2, item C (2), procedure j). Secure the lock assembly into the canopy using screws (pos. 4 and 5, Fig. 11). Position the bowden cable straight without twisting. Slightly tension the control wire and adjust the unlocking function by setting the wire length. Afterwards secure the control wire through the button housing using an M4x4 screw (pos. 5, Fig. 8). Check the unlocking function by pressing the button (pos. 3, Fig. 8). Pressing the button must result in the complete opening of the lock latch. Finely adjust the bowden cable length using the adjustment screw. Tighten all screws and secure the bowden cable with the nuts (pos. 8, Fig. 11).



Fig. 10 Hook the wire into the lock

3.7 Cockpit canopy installation

Install the cockpit canopy according to the procedure described in Chapter 52, Subchapter 52-10, paragraph 2, item A (2) Installation – the cockpit canopy and check the function of the switch of unsecured cockpit canopy.

Secure the Bowden cable to the Overhead panel at the location of the centre cover using Emfimastic PU50 adhesive.
Install the centre and rear covers (pos. 10 and 11, Fig. 11) into the Overhead panel and secure them using M3x10 screws (pos. 12, Fig. 11).

4. Operational documentation

4.1 Pilot´s Operating Handbook

The required revision of the Pilot´s Operating Handbook is specified in bulletin No. RTC-040a_R11.

4.2 Aircraft Maintenance Manual

The required revision of the Aircraft Maintenance Manual is specified in bulletin No. RTC-038b_R8.

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4.3 Record the work performed on the aircraft in the Aircraft Logbook.
„Overhead panel S5210200S installed according to Information bulletin No. RTC-084b“ Add date and signature.

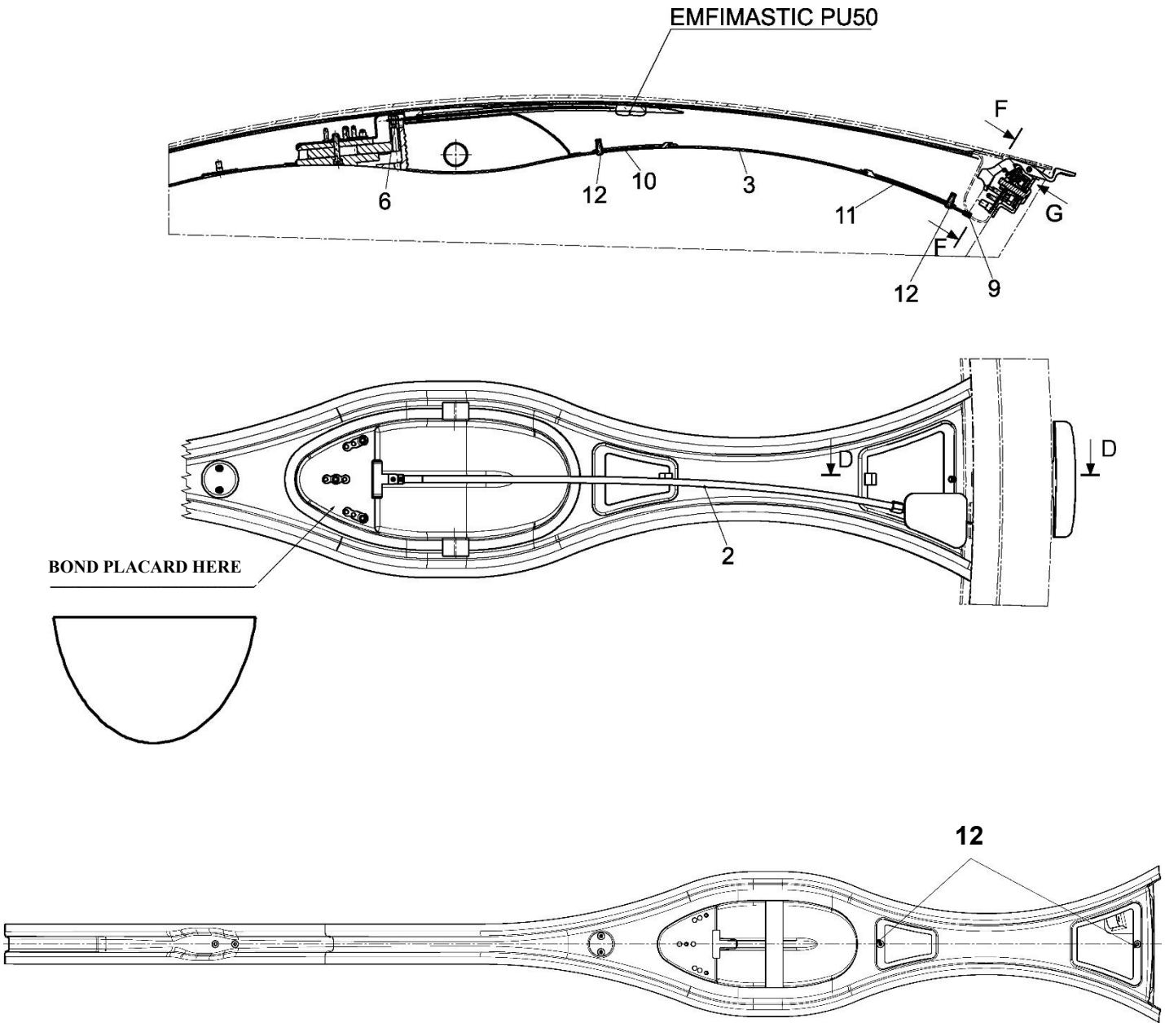
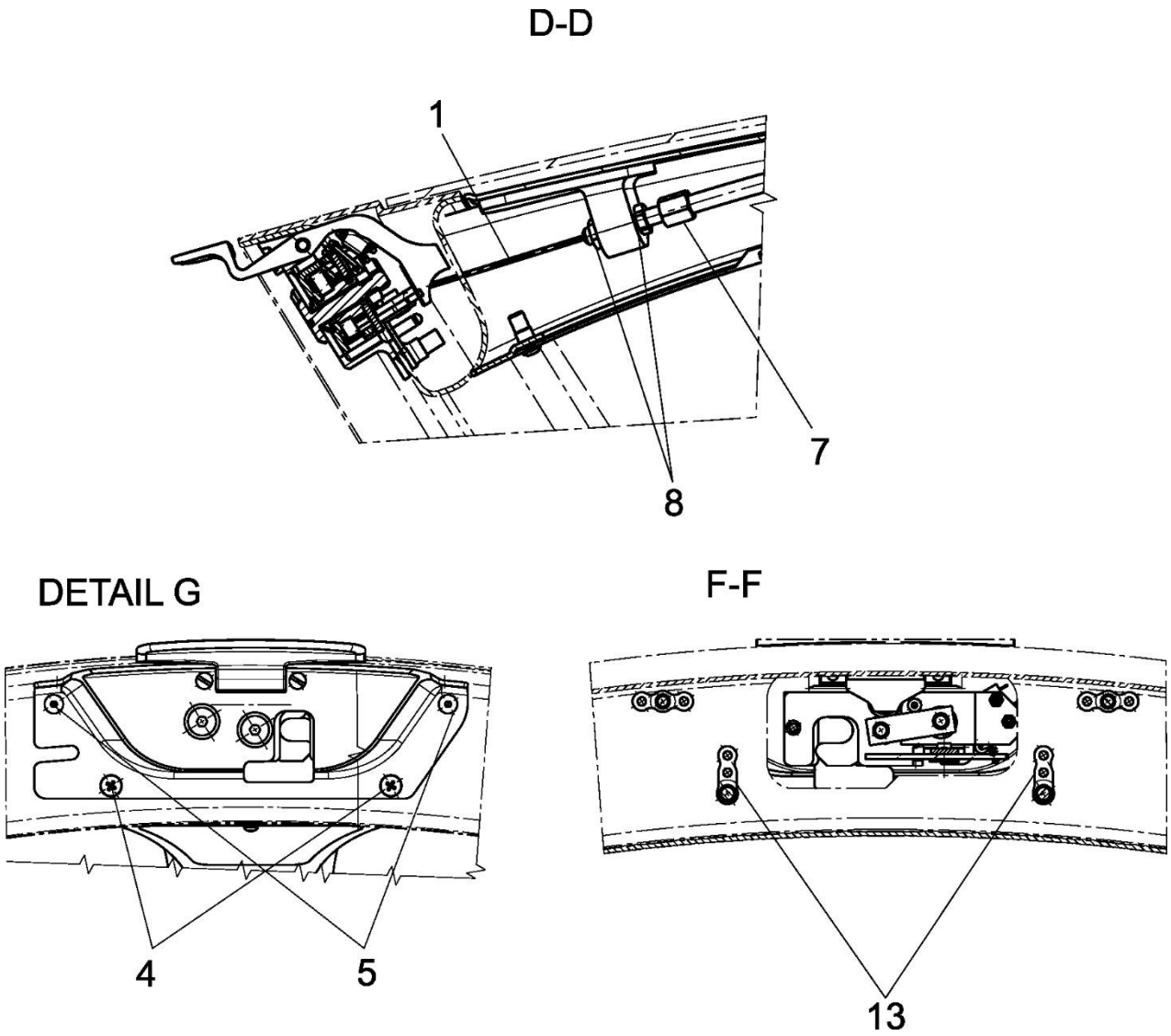


Fig. 11 Overhead panel Retrofit S5210200S assembly (page 1)

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Position	Name	Position	Name
1	Control wire (S5210019D)	8	Nut M5 (031909)
2	Bowden cable (059275)	9	U-shaped seal (086835)
3	Overhead panel assembly (S5210210S)	10	Centre cover (S5210017D)
4	Screw M5x16 (009821)	11	Rear cover (S5210018D)
5	Screw M4x16 (011870)	12	Screw M3x10 (010982)
6	Screw M4x4 (011904)	13	Nut M5 (033604)
7	Adjustment screw 5,7x25 (058963)		

Fig. 11 Overhead panel Retrofit S5210200S assembly (page 2)

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