

issues

**MANDATORY BULLETIN No. RTC-069a SR
SAFETY RELATED**

**TECHNICAL CONTENT OF THIS DOCUMENT IS APPROVED ON
THE BASIS OF AUTHORIZATION DOA NO. EASA.21J.057**

THIS BULLETIN MAY BE AFFECTED BY AD.

- 1. CONCERNING TO:** All SPORTSTAR RTC aircrafts equipped with brake calipers S5 10-05 01 / 02.
- 2. REASON:** When installing, replacing or repairing the brake caliper bodies, the brake caliper cuff may be fitted incorrectly, which may cause the brake system to malfunction.
- 3. REQUIRED ACTIONS:**
 1. Install the brake caliper cuff stops with the new brake caliper cuffs as per the text of the bulletin.
 2. Record the bulletin installation of the brake caliper cuff stop according to this bulletin in the Aircraft Logbook.
- 4. LATEST DAY OF THE ACTION:** Within 30 calendar days of the issue of this bulletin or at the next scheduled service inspection, whichever comes first.
- 5. CARRIED OUT BY:** Organization with authorization for maintenance/repairs of this type of airplane in accordance with Part ML or Part 145 or Part CAO or the relevant authorized person.
- 6. COSTS COVERED BY:** Operator / owner of the airplane.
- 7. NECESSARY MATERIAL:** In accordance with the text of the bulletin.
- 8. WORK PROCEDURE:** In accordance with the text of the bulletin.
- 9. APPENDICES:** None.

Valid from: April 24th, 2023

**1. Work procedure****1.1 Necessary tools**

See Airplane Maintenance Manual for SportStar RTC (doc. No. ERTC022-10-AS), Section 32-42.

1.2 Necessary material (RTC069A)

Name	Marking	Nomencl.	Quantity
Cuff stop		S5 10-06 21	2 pcs.
Wire safety lock		S5 10-13 21	2 pcs.
Cuff 25x7.5	ČSN 02 9272	053831	2 pcs.
Cotter pin 4x40	ISO 1234	040351	2 pcs.
O - ring ø 25x2		059296	2 pcs.

Material shall be supplied by the airplane manufacturer.

1.3 Work procedure**1.3.1 Removing the brake and disassembling the brake caliper**

- 1.3.1.1 Lift the airplane (Section 07-10) (doc. No. ERTC022-10-AS).
- 1.3.1.2 Remove main wheel fairings (Section 32-10) (doc. No. ERTC022-10-AS).
- 1.3.1.3 Drain the brake fluid (Section 12-10) (doc. No. ERTC022-10-AS).
- 1.3.1.4 Remove the main wheels (Section 32-41) (doc. No. ERTC022-10-AS).
- 1.3.1.5 Disconnect the hose (9, Fig. 1) from the straight hose connection (5) by loosening the nut (11). Blind the hose (9).
- 1.3.1.6 Straighten one end of the wire safety lock (15) and slide the wire safety lock out.
- 1.3.1.7 Remove the pins (14) of the attachment of the brake shoes (13). Remove the brake caliper body from the wheel.
- 1.3.1.8 Slide out the piston (4) along with the cuff (3) from the brake caliper body (1).
- 1.3.1.9 Remove the O-ring (7) from the brake caliper body (1).

1.3.2 Installation of the brake caliper cuff stops.

- 1.3.2.1 Perfectly clean all the parts and check for damage, wear and tear or corrosion before installation.
- 1.3.2.2 Insert the correctly oriented cuff stop (2, Fig. 2) and push it all the way to the bottom of brake caliper (1).
- 1.3.2.3 Apply brake fluid onto the outer cylindrical circumference of the **new** cuff (3). Insert the **new** cuff (3) into the brake caliper.
- 1.3.2.4 Apply brake fluid onto the **new** O-ring. Insert the **new** O-ring into the groove in the brake caliper body (1).
- 1.3.2.5 Insert the correctly oriented piston (4) into the brake caliper body (1) without force.
- 1.3.2.6 Place the brake disc (section 32-41) (doc. No. ERTC022-10-AS) and the brake shoes (13, Fig. 1) into the brake caliper (1).
- 1.3.2.7 Place the brake holder (8) between the brake shoes (13) and insert the pins (14) into appropriate holes.
- 1.3.2.8 Insert the **new** wire safety lock (15) into the holes in the pins (14) and secure it by bending it.
- 1.3.2.9 Slide the brake assembly onto the main wheel axle (Section 32-41) (Doc. No. ERTC022-10-AS) and install it on the appropriate pins on the main wheel axle.

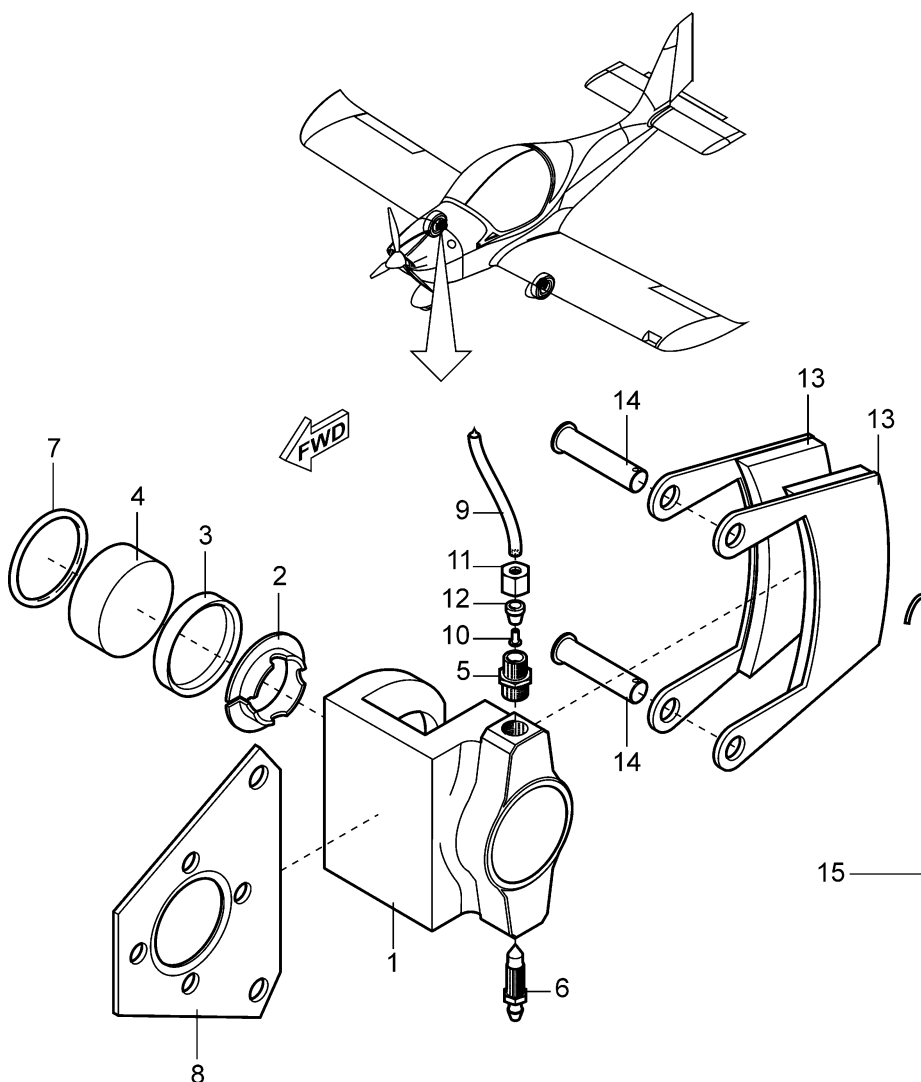


Fig. 1 – S5 10-05 01/02 brake

Legend to Fig. 1

1	Brake caliper S5 10-05 01/02	9	Brake hose
2	Cuff stop	10	Tube rivet
3	Cuff	11	Swivel nut
4	Piston	12	Sealing cone
5	Straight hose connection	13	Brake shoe
6	Bleeding screw M6x1	14	Pin
7	O-ring ø 25x2	15	Wire safety lock
8	Brake holder		

1.3.2.10 Install the main wheels (Section 32-41) (doc. No. ERTC022-10-AS).

1.3.2.11 Remove the plug from the hose (9).

1.3.2.12 Attach the straight connection (5) to the hose (9) with the pressed tube rivet (10) and the sealing cone (12) using the swivel nut (11). For the associated replacement of the sealing cone (12) or tube rivet (10) or both, follow the instructions in Bulletin RTC-065b.



1.3.2.13 Replenish brake fluid, bleed the brake circuit (Section 12-10) (doc. No. ERTC022-10-AS) and do the function check and the leakage test.

1.3.2.14 Lower the airplane (07-10) (doc. No. ERTC022-10-AS).

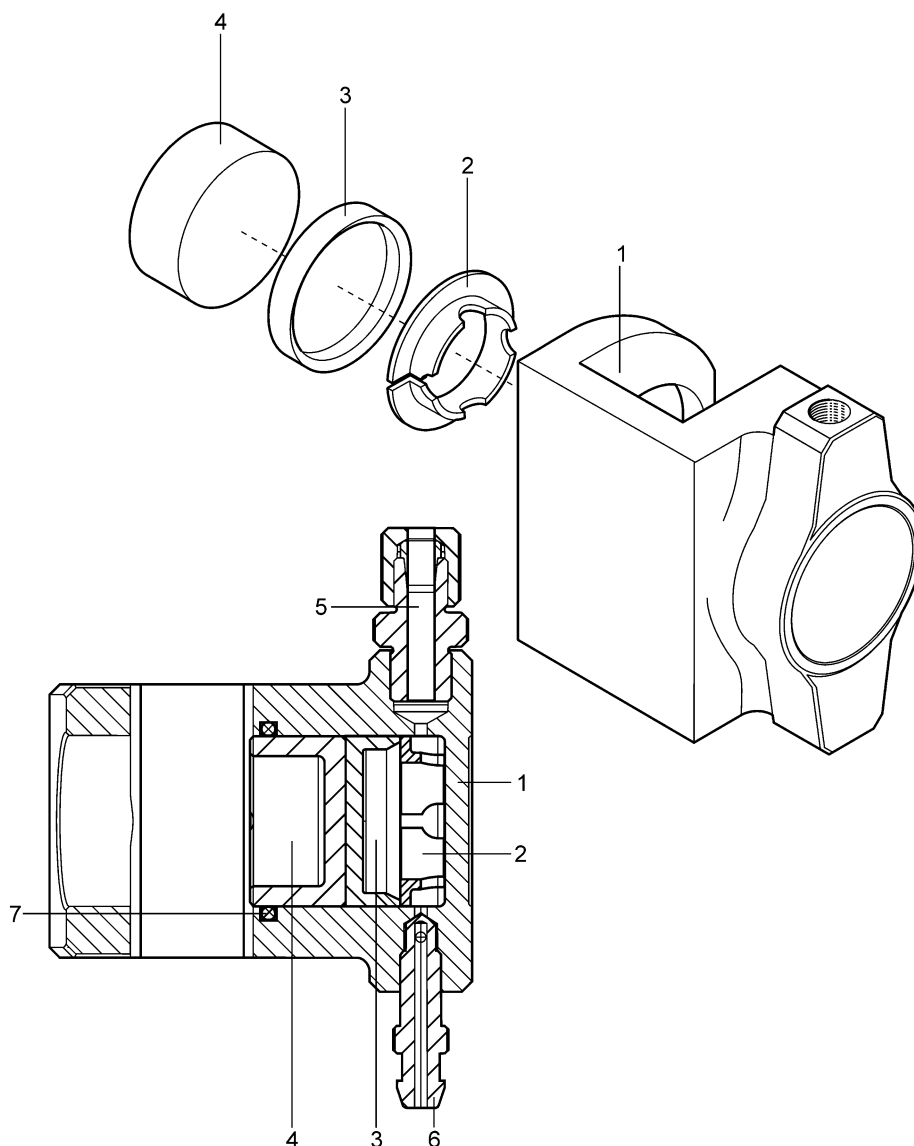


Fig. 2 –Installation of brake caliper cuff stop.

Legend to Fig. 2

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|---|------------------------------|---|----------------------------------|
| 1 | Break caliper S5 10-05 01/02 | 5 | Straight hose connection fitting |
| 2 | Cuff stop | 6 | Bleeding screw M6x1 |
| 3 | Cuff | 7 | O-ring ø 25x2 |
| 4 | Piston | | |

2. Influence on airplane documentation

2.1 Accompanying technical documentation

Not affected.

2.2 Operational technical documentation

The authorized person will carry out this record in the Aircraft Logbook after bulletin implementation: „**Installation of brake caliper cuff stops in brake caliper bodies S5 10-05 01 / 02 were carried out according to the Mandatory Bulletin No. RTC-069a SR** and add the date and his/her signature.

3. Influence on weight and balancing

Not affected.