

This Service Bulletin revises ZBWT9 25A /2020, initial issue, dated 21.12.2020.

### A. SUBJECT:

Installation of parachute front spacer between firewall and parachute fabric container.

### B. AFFECTED:

DY-458/2013	DY-467/2013	DY-488/2013	DY-489/2013	DY-497/2014
DY-502/2014*	DY-512/2014	DY-516/2014	DY-520/2014;	DY-521/2014;
DY-533/2015;	DY-536/2015;	DY-540/2015;	DY-546/2015;	DY-566/2016;
DY-571/2016;	DY-572/2016;	DY-584/2016;	DY-592/2016;	DY-596/2016;
DY-610/2017;	DY-611/2017;	DY-613/2017;	DY-615/2017;	DY-628/2017;
DY-630/2017;	DY-636/2017;	DY-638/2017;	DY-641/2018;	DY-644/2018;
DY-648/2018;	DY-656/2018;	DY-663/2018;	DY-665/2019;	DY-670/2019;
DY-672/2019;	DY-676;	DY-687;	DY-689;	DY-692;
DY-703;	DY-706;			

\*Only if the parachute will be installed.

### C. REASON:

Under certain conditions the firewall installations may locally damage the parachute fabric container.

### D. REQUIRED ACTION:

Installation of parachute front spacer according to **PROCEDURE 1** or **PROCEDURE 2** will ensure sufficient offset of parachute fabric container from the firewall. Install the parachute front spacer as follows:

**WARNING:** The rescue system actuator must be secured by lock during work!

**WARNING:** Perform all actions in the rescue system compartment very carefully as you are working close to the rocket! Be careful not to damage the rocket or other parts of the rescue system!

**Note:** This procedure was performed on an aircraft with a retractable landing gear for illustration. The procedure for an aircraft with a fixed gear is very similar.

### PREPARATION:

1. Lock the rescue system actuator (Fig. 1)!

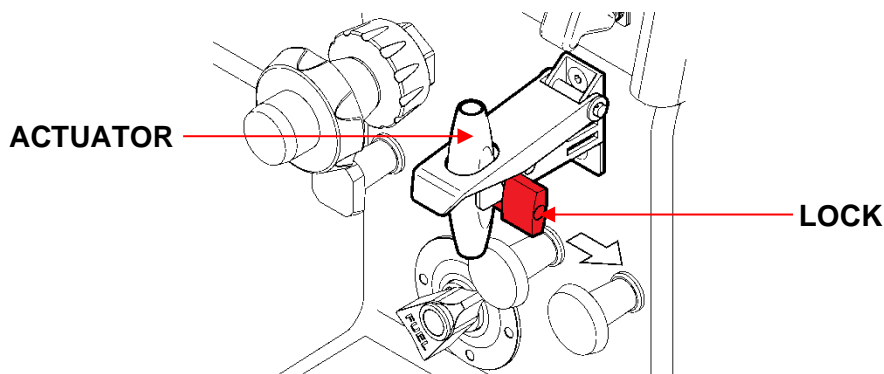


Fig. 1

2. Remove the screws (1; Fig. 2) and remove the rescue system cover (2) using a flat screwdriver.

☐ INFORMATION☐ OPTIONAL/RECOMMENDED☒ **MANDATORY****PROCEDURE 1:**

3. Pull the parachute fabric container (9; Fig. 3) and parachute strap (11; Fig. 6) backward from the firewall.
4. Cut symmetrically the corners of parachute front spacer DYN-160-15-PP-1 (for fixed landing gear) or DYN-160-15-ZP-1 (for retractable landing gear) (12; Fig. 7) and adapt the shape of parachute front spacer according to the rescue system board (13; Fig. 8) as required. Place the parachute front spacer (12) in the rescue system compartment to cover the firewall.

*Note: Ensure the parachute front spacer fits well in the rescue system compartment.*

5. If the parachute fabric container (9; Fig. 3) and parachute strap (11; Fig. 6) cannot be pulled enough from the firewall to install the parachute front spacer, continue with step 6, otherwise continue with step 25.

**PROCEDURE 2:**

6. Remove the paper tape (3; Fig. 3) and release the rocket rope (5).

*WARNING: Do not pull the rocket rope!*

7. Release the rocket snap hook (6) using 8 mm wrench and remove the rocket rope (5) from the snap hook (6). Release the parachute snap hook (4) using 22 mm wrench, remove the cable tie (7) and remove the parachute strap (8) from the snap hook (4).

*Note: Use another wrench to counteract the torque while releasing the snap hook nut (Fig. 4).*


8. Remove the 4 ropes (10; Fig. 5), which attach the parachute fabric container to the rescue system board.
9. Remove the parachute fabric container (9; Fig. 3) from the aircraft.
10. Pull the parachute strap (11; Fig. 6) backward from the firewall.
11. Cut symmetrically the corners of parachute front spacer DYN-160-15-PP-1 (for fixed landing gear) or DYN-160-15-ZP-1 (for retractable landing gear) (12; Fig. 7) and adapt the shape of parachute front spacer according to the rescue system board (13; Fig. 8) as required. Place the parachute front spacer (12) in the rescue system compartment to cover the firewall.

*Note: Ensure the parachute front spacer fits well in the rescue system compartment.*

12. Push the parachute strap (11; Fig. 6) forward to its original position along the parachute front spacer.
13. Cut the rope N3721-001 to 4 equal pieces (500 mm each).
14. Pull the 4 ropes (14; Fig. 9) through the attachment points of parachute fabric container (15).

*WARNING: Ensure the ropes are pulled through the correct attachment points!*

15. Fix the ropes to the parachute fabric container using a paper tape (16).

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16. Remove the instrument panel cover (17; Fig. 10) using a flat screwdriver and tilt it upwards.

*WARNING: Be careful not to damage the antennas attached to the instrument panel cover (if installed)!*

17. Insert the parachute fabric container (9; Fig. 11) into the rescue system compartment partially.

*WARNING: Before inserting the parachute fabric container into the rescue system compartment, ensure the parachute strap (11; Fig. 6) is in the correct position along the parachute front spacer!*

18. Remove the paper tapes (16; Fig. 9) and pass the left ropes (14; Fig. 12) through the holes in the rescue system board (13).

*WARNING: Ensure the securing ropes are pulled through the correct holes!*

19. Put the parachute fabric container into the rescue system compartment. Remove the paper tapes (16; Fig. 9) and pass the right ropes (14; Fig. 13) through the holes in the rescue system board (13).

20. Tighten all 4 ropes (14; Fig. 5) properly and secure the parachute fabric container by tying a self-tightening knot (Fig. 14).

21. Shorten the loose ends of the ropes to approximately 40 mm behind the knot (10; Fig. 5).

22. Insert the rocket rope (5; Fig. 3) into the rocket snap hook (6), apply Loctite 243 on the thread of the rocket snap hook (6) and tighten the nut using 8 mm wrench.

23. Insert the parachute strap (8; Fig. 3) into the parachute snap hook (4), secure the parachute strap by a cable tie (7), apply Loctite 243 on the thread of the parachute snap hook (4) and tighten the nut using 22 mm wrench.

*Note: Use another wrench to counteract the torque while tightening the snap hook nut (Fig. 4).*

24. Secure the rocket rope (5) to the rocket snap hook (4) using a paper tape (3).

#### **FINALISATION:**

25. Check if no foreign objects are left in the rescue system compartment.
26. Install the rescue system cover (2; Fig. 2) and instrument panel cover (17; Fig. 10) using a flat screwdriver.
27. Record compliance with this Service bulletin into the aircraft documentation.

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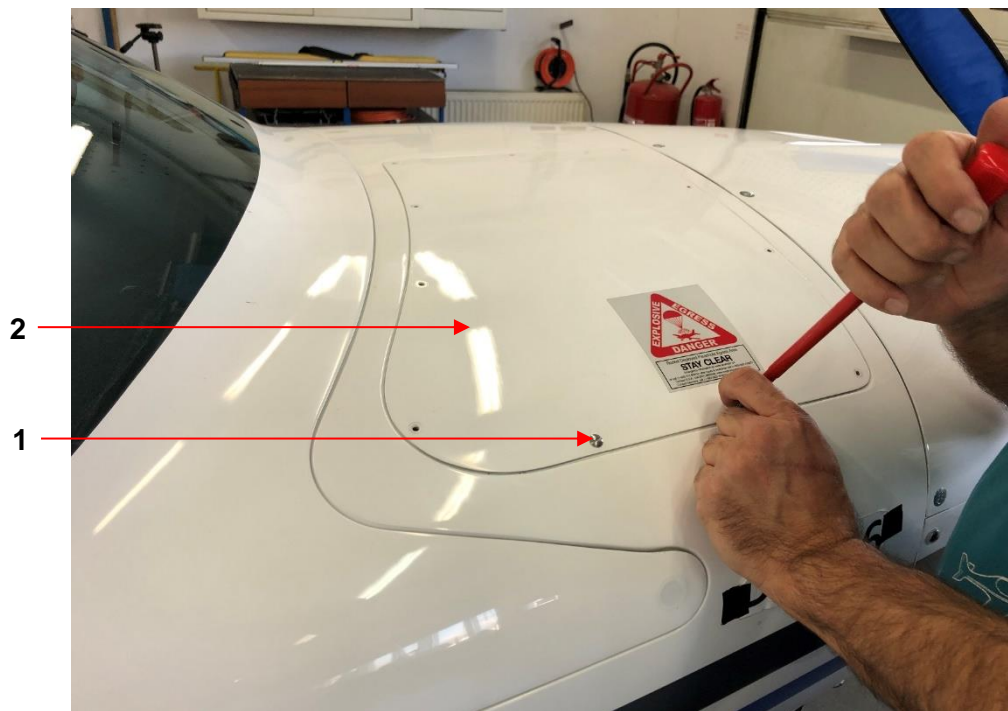


Fig. 2

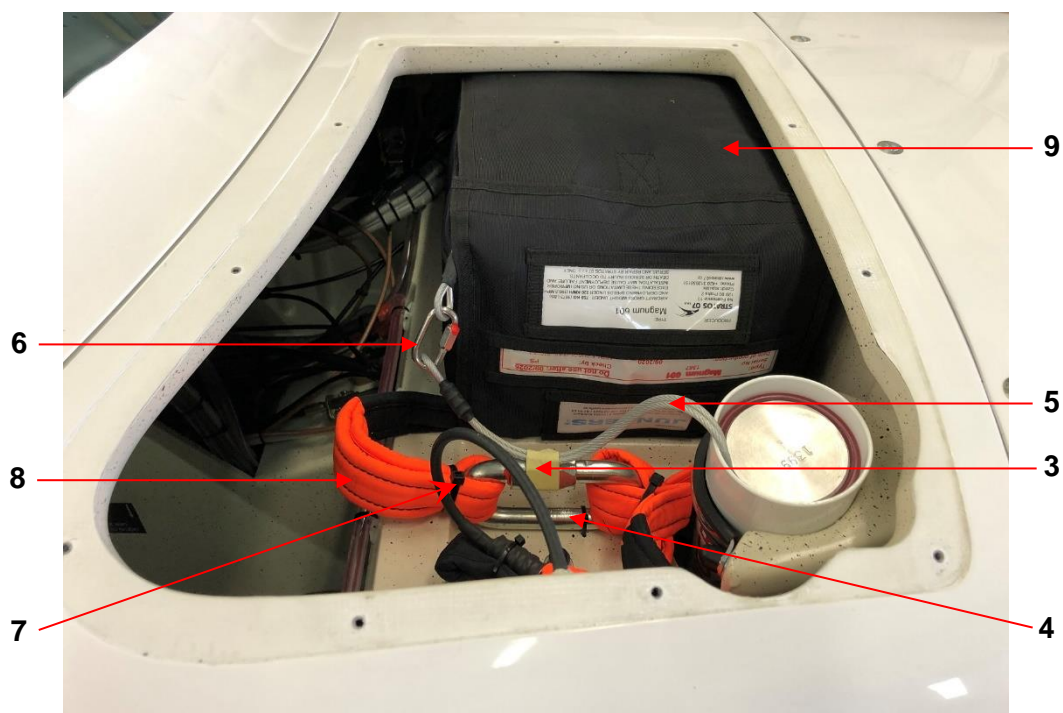


Fig. 3



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Fig. 4

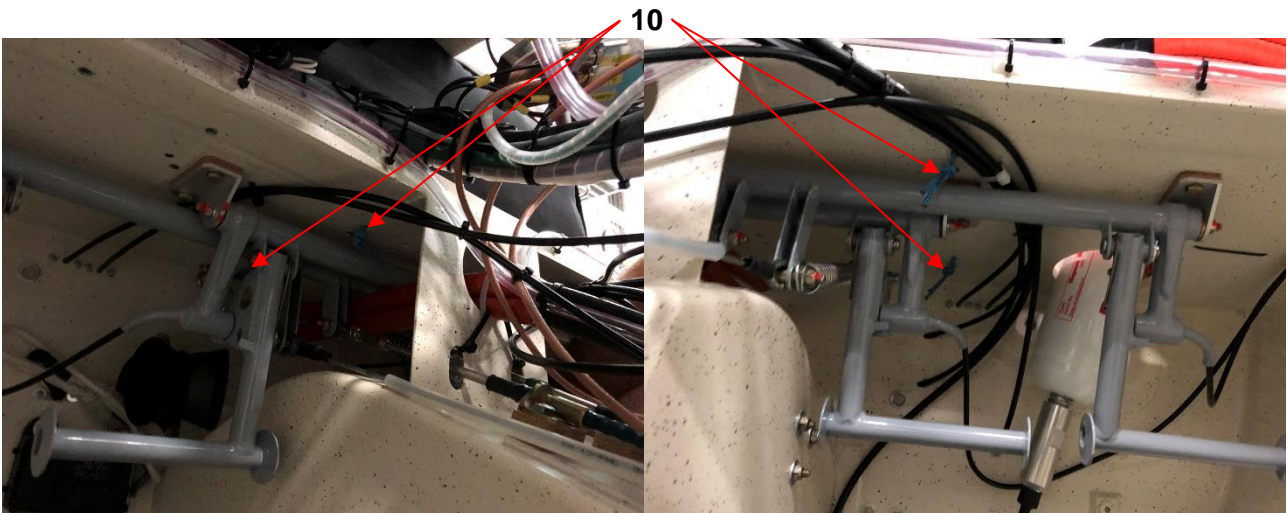


Fig. 5

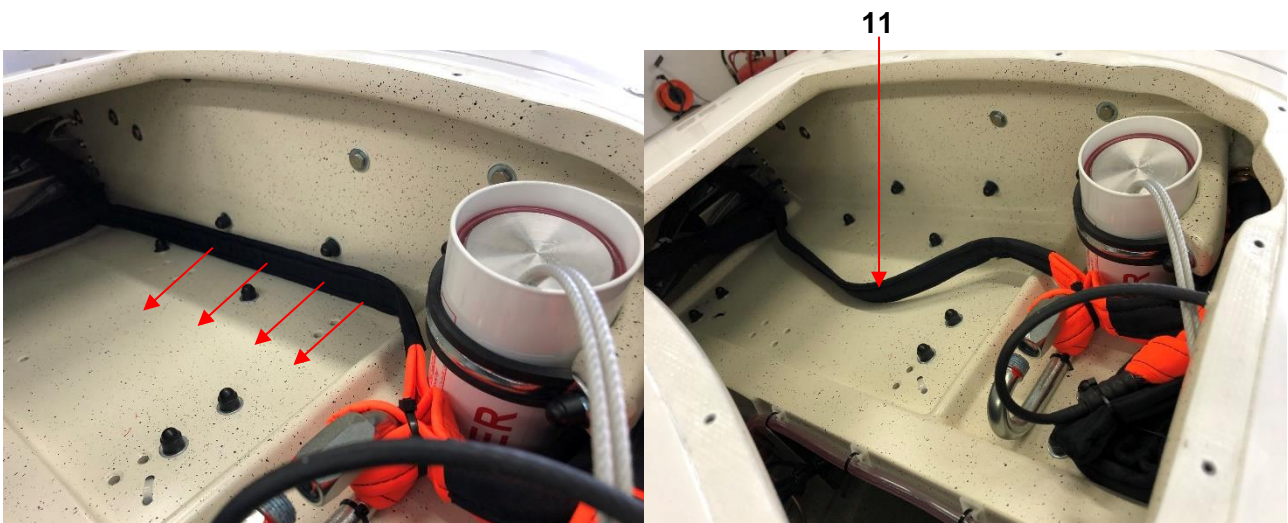


Fig. 6



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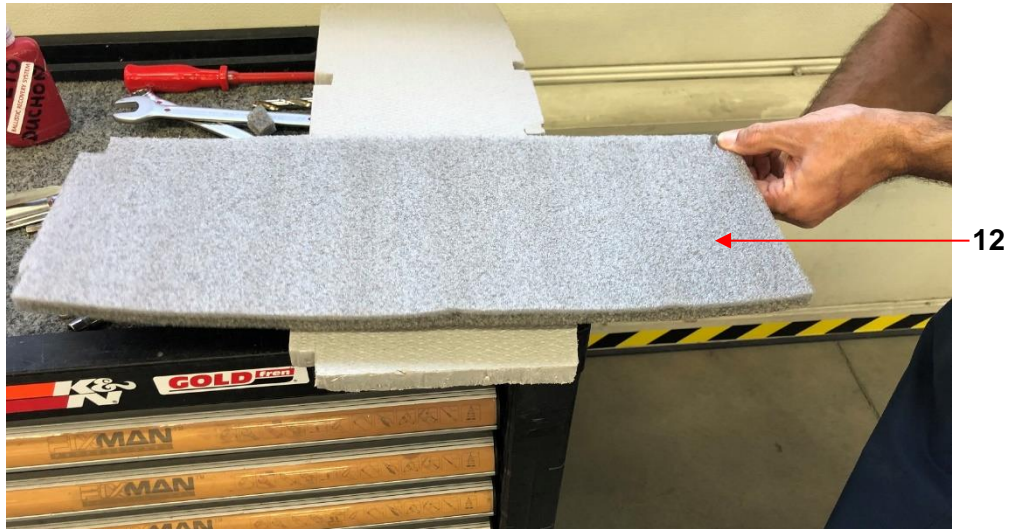


Fig. 7

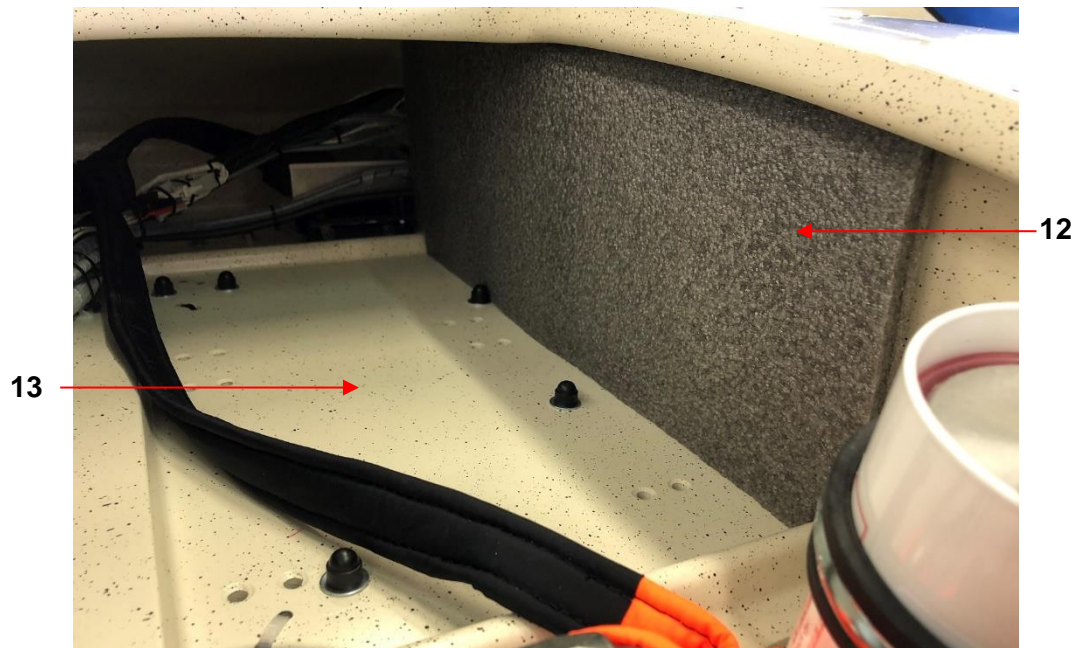


Fig. 8

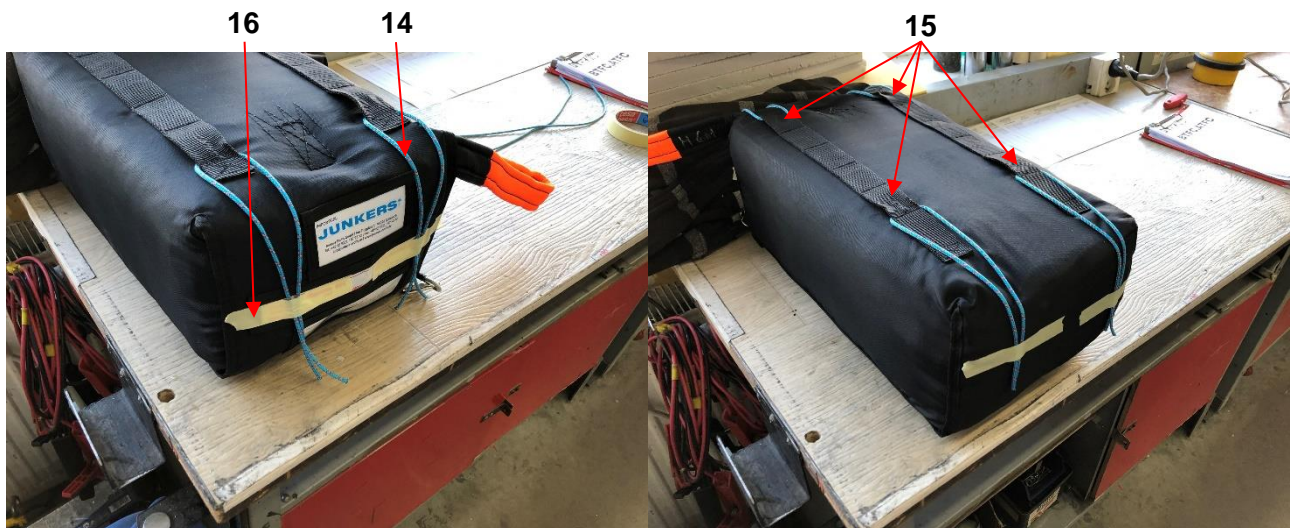


Fig. 9

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Fig. 10



Fig. 11



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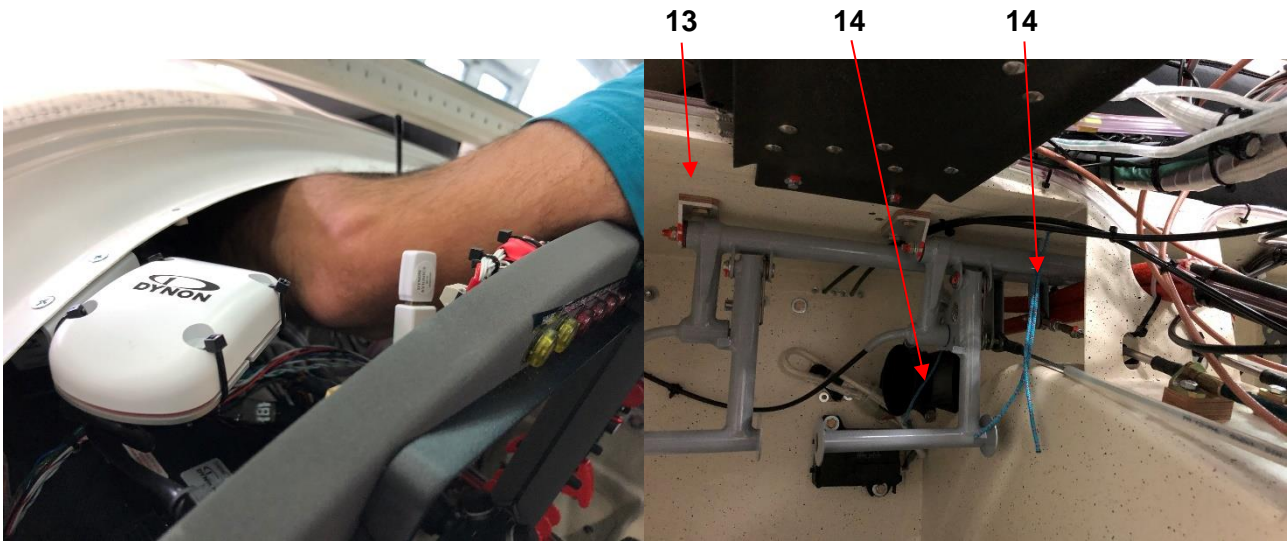


Fig. 12

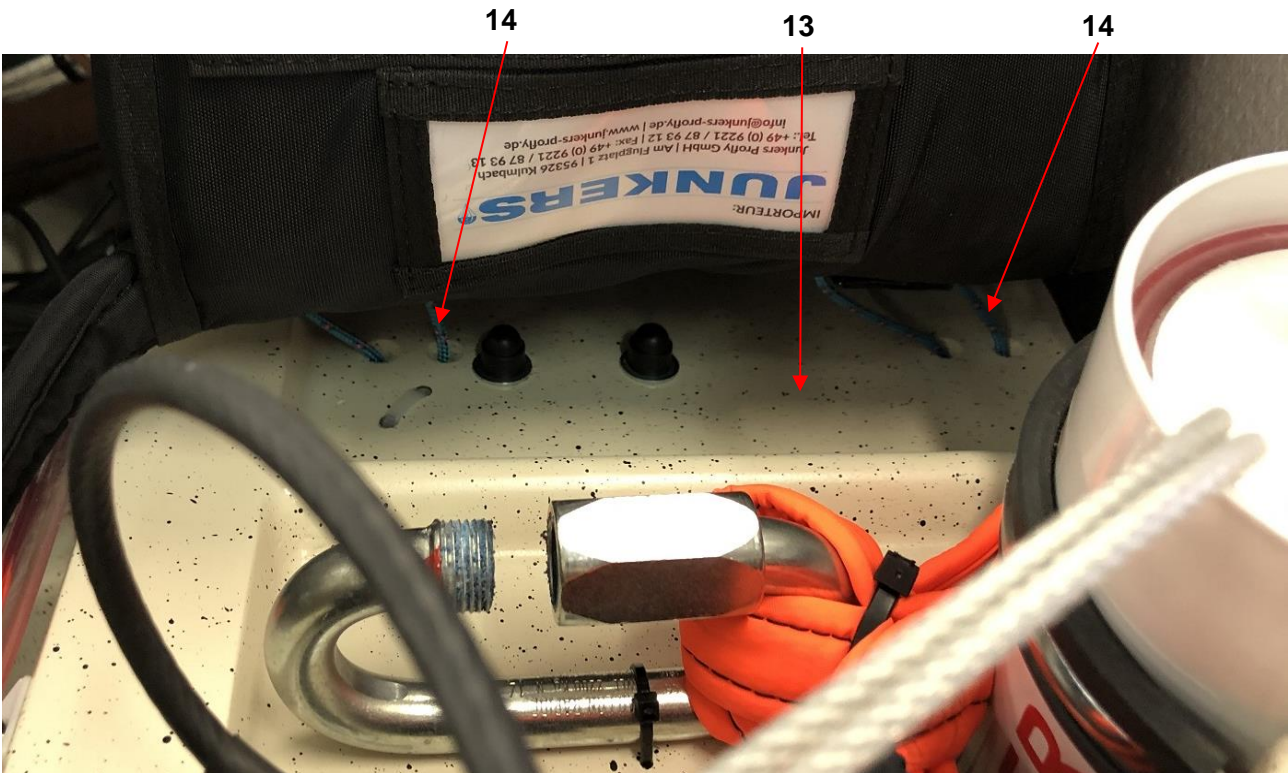


Fig. 13



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Fig. 14

### E. COMPLIANCE:

At the next periodic inspection.

### F. WEIGHT AND BALANCE:

Weight change: None.

Moment change: None.

### G. NECESSARY MATERIAL AND WORK TIME:

#### Material:

Necessary material will be supplied on request by manufacturer Aerospool, spol. s r. o. For material purchase contact the manufacturer directly at [spareparts@aerospool.sk](mailto:spareparts@aerospool.sk). Material will be supplied free of charge.

#### MATERIAL FOR AIRCRAFT WITH FIXED LANDING GEAR

Item	Part Name	Part Number	Quantity
-	ZBWT9-25A-2020 KIT1	ZBWT9-25A-2020-1	1 pc

Kit contains:

Item	Part Name	Part Number	Quantity
1	Parachute front spacer, EPS FG	DYN-160-15-PP-1	1 pc
2	Rope EN564 PA 3	N3721-001	2,0 m

#### MATERIAL FOR AIRCRAFT WITH RETRACTABLE LANDING GEAR

Item	Part Name	Part Number	Quantity
-	ZBWT9-25A-2020 KIT2	ZBWT9-25A-2020-2	1 pc

Kit contains:

Item	Part Name	Part Number	Quantity
1	Parachute front spacer, EPS RG	DYN-160-15-ZP-1	1 pc
2	Rope EN564 PA 3	N3721-001	2,0 m

**Work time:** ½ hour to 1 hour

☐ INFORMATION☐ OPTIONAL/RECOMMENDED☒ **MANDATORY****H. DOCUMENTATION:**

None.

**I. ENCLOSURES:**

None.

**J. APPROVED BY:**

Issued by:



Prievidza, 02.01.2021

Place, Date, Signature

Approved by:

Slovak Republic Transport Authority