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ALERT SERVICE BULLETIN

IMPORTANCE	High
AREA AFFECTED	Packed Parachute Assembly
SB NUMBER	CH/005/04-2018

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1) PLANNING INFORMATION

a) Affectivity:

Which aircraft it will affect?

- Aircraft with Egress panel cut out 1 **and** BRS system installed (see figure 1(a)).
- All aircraft with Egress panel cut out 2 **or** no installed BRS system are not affected (see figure 1(b)).

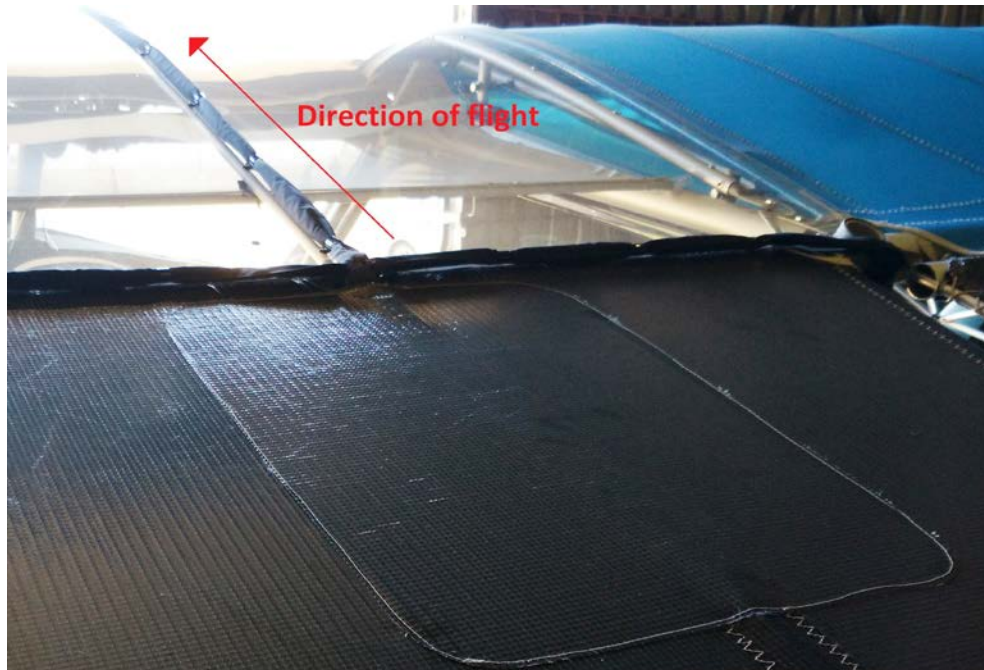


Figure 1: (a) Egress panel cut out 1

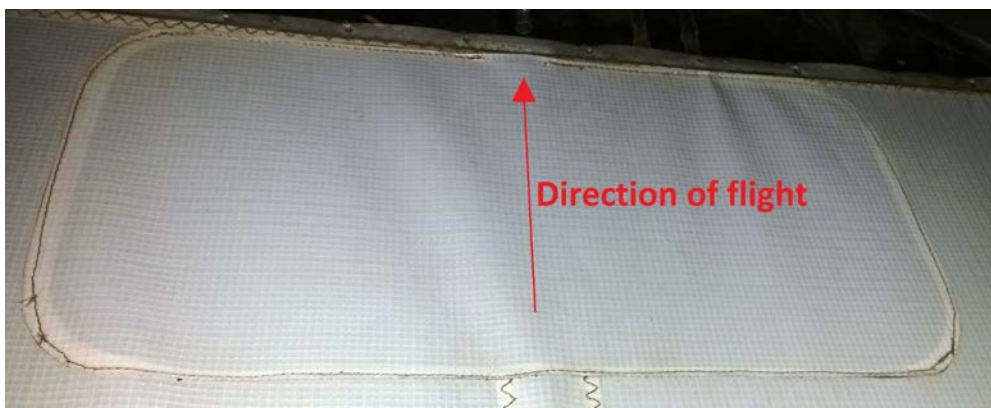


Figure 1: (b) Egress panel cut out 2

b) Reason for notice:

During the recent ground extraction testing, BRS Aerospace recommended that the rocket attached to the U-frame containing the packed parachute assembly be aligned with the egress panel to facilitate an effective parachute deployment in an emergency situation; thus ensuring that all effected aircraft match test conditions.

c) Description of change:

Instead of being mounted perpendicular to the direction of flight, the parachute and tray installation needs to be rotated as a unit so that the rocket mounted to the right hand side of the tray aligns with the egress panel stitched into the fuselage sail.

This is to ensure that the rocket orientation matches the test conditions. Failure to do so could result in unknown results in the event of activation such as rocket rotation within the fuselage sail or egression from an unprecedented location

d) Compliance:

Rotate the parachute assembly on the support strut by loosening the bolts on the mounting brackets, turning the assembly and retightening the bolts. It is imperative that after the rotation the rocket is positioned beneath the cut out in the trilam made to facilitate rocket penetration.

On accomplishment, record of this service bulletin must be documented in the aircraft airframe logbook referencing the SB number.

e) Personnel qualification requirements:

Any person qualified to maintain/repair the BushCat within the laws stipulated by the pertinent aviation authority regulations for the country of registration may carry out this service bulletin.

It is recommended that 2 people accomplish this task due to the difficulty in tightening the bolts on the mounting bracket while holding the assembly in position against the support strut.

f) Weight and balance changes:

No change to the weight and balance.

g) Publications affected:

SKYREACH-BRS-PIM-01

2) MATERIAL INFORMATION

a) Replacement parts

Not applicable.

b) Required tooling

Allan key supplied with the BRS assembly and an 11mm metric spanner for the nuts.

c) Required special tooling

Not applicable.

3) ACCOMPLISHMENT INSTRUCTIONS

a) General information

Caution: Prior to installation ensure that the pin is in the activation handle.

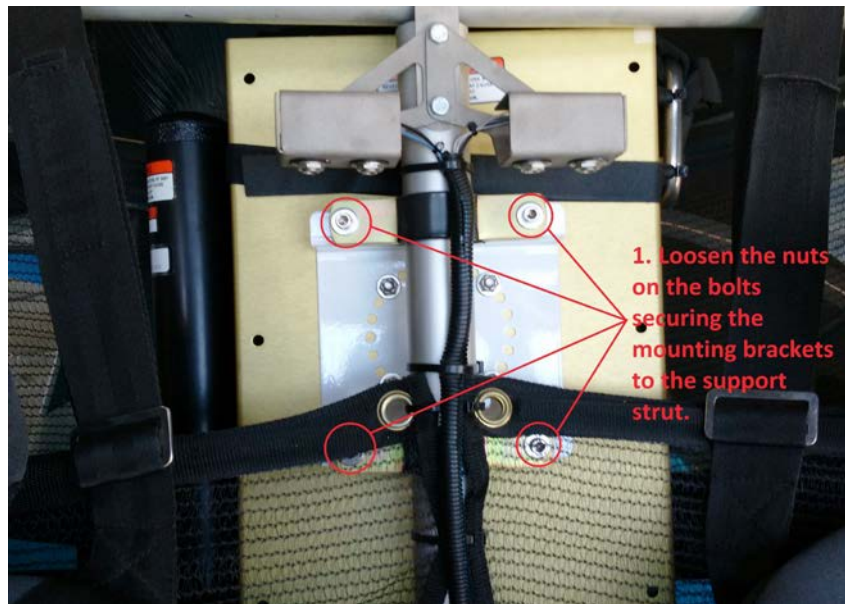
Caution: At no point must the parachute / rocket assembly be pulled away from the mounted activation handle sharply as this can activate the system.

b) Work instructions

Step 1

Using the Allan key and spanner, loosen the Nylock nuts attaching the mounting brackets to the support strut.

Due to the weight of the parachute assembly, it is advisable to have one person support the parachute while the other person loosens the nuts.



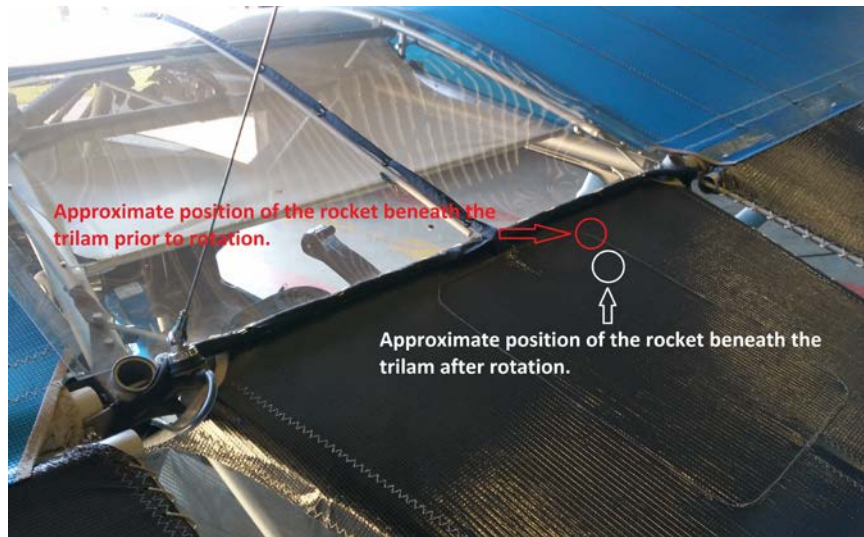
Step 2

Rotate the parachute assembly on the support strut clockwise (looking downwards from a top view) until the rocket sits underneath the trilam egress panel.



Step 3

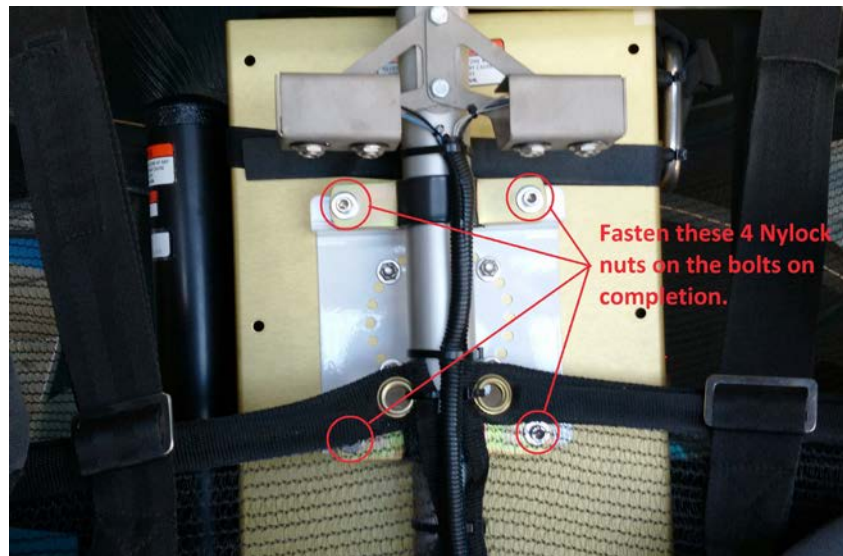
Press lightly on the trilam from the top while a second person supports the parachute assembly against the support strut to check that the rocket sits beneath the egress panel beneath the trilam as shown.



Step 4

Tighten all 4 Nylock nuts on the 4 bolts on the mounting brackets to secure the parachute assembly back to the support strut in the new position.

It is once again advisable to have a second person supporting the parachute assembly while the first person tightens the nuts once more.



c) Final inspection

1. Check from the top of the aircraft that the rocket is positioned cleanly under the egress panel cut into the trilam after tightening.
2. Check that all nuts are tight and parachute assembly is securely attached to the support strut.