



Marine Mk IV liferafts — Canopy : *Inspect the canopy doorway zip sliders*

This Service Bulletin has been technically approved by Survitec Design Authority.

Signed:

A handwritten signature in black ink, appearing to read "Tommy Scott".

Dated: 05-Jul-2021

Tommy Scott
Head of Engineering
Survitec

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1. Introduction

Each Mk IV liferaft has a canopy. The doorways on the canopy have two zips with metal zip sliders. Survitec has found that these metal zip sliders might experience corrosion. If you find corrosion on a metal zip slider then you must replace all metal zip sliders with a resin zip slider.

This service bulletin tells service personnel to inspect each canopy doorway metal zip slider for corrosion and if necessary replace with resin zip sliders.

This service bulletin is associated with the publications that follow:

- M 269-00 Marine Mk IV Liferafts (Throwover & Davit Launch) Service Manual
- M 269-02 Manuel de révision des Radeaux de Sauvetage Marine Mk IV (Radeau Largable & Sous Bossoir)
- M 271 Mk IV - Extended Service Liferafts Service Manual
- M 275 RFD-TOYO Mk IV SOLAS Liferafts Service Manual

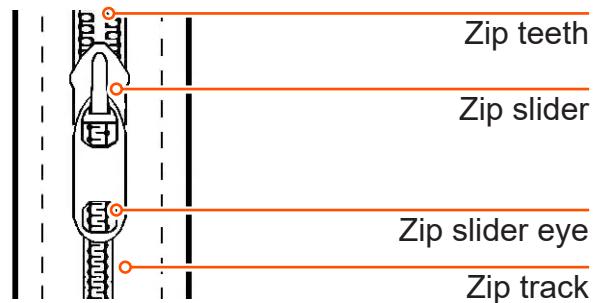


FIGURE 1
Metal and resin zip slider

2. Equipment and vessels affected

All Marine Mk IV liferafts.

3. Embodiment date

Do this service bulletin at each service.

4. Necessary parts

Part number	Description	Quantity
02426001	4 kgf thread	AR
08110009	525 lbf cord (500 mm long)	8
12750009	Resin zip slider (refer to Figure 1)	AR

5. Necessary equipment and tools

Part number	Description	Quantity
Locally sourced	Cutting pliers	1
Locally sourced	Stitch picker	1
Locally sourced	Water and/or vinegar	AR

6. Tasks

A. Inspect the canopy doorway zip sliders:

- (1) Do a check on the zip sliders at each canopy doorway.

NOTE: A Mk IV liferaft might have a metal or resin zip slider.

- (2) Do the steps that follow if you find a metal zip slider:

- (a) Do a check for corrosion on all of the metal zip sliders.
 - (b) If you find corrosion on any of the metal zip sliders then do Task 6.B.
 - (c) You do not need to do Task 6.B. if there are no signs of corrosion.

B. Replace each metal zip slider with a resin zip slider:

- (1) Remove the outer metal zip sliders:

- (a) Inflate the liferaft.
 - (b) Deflate the arch tube.

CAUTION: DO NOT PULL OR FORCE THE CORRODED METAL ZIP SLIDER.

- (c) Go to the outer metal zip slider.
 - (d) Use fresh water and/or vinegar to remove all corrosion from the metal zip slider.
 - (e) Remove the metal zip slider cord loops. Refer to **Figure 2**.

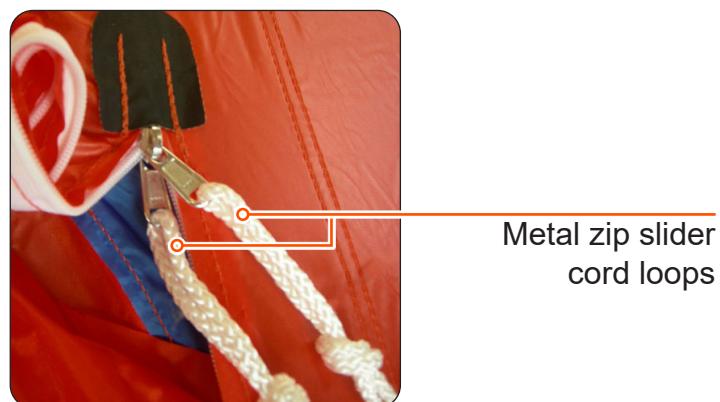


FIGURE 2
Remove the metal zip slider cord loops

- (f) Use a stitch picker to carefully remove the zip securing stitches from the back of the zips. Refer to **Figure 3**.

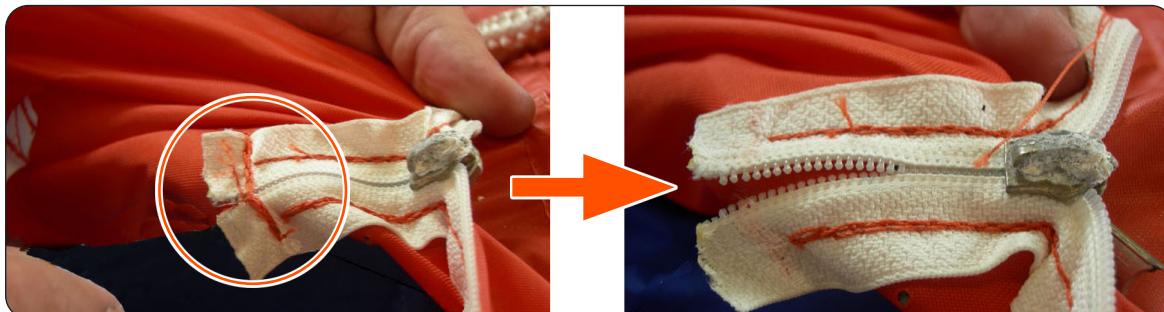


FIGURE 3
Remove the zip securing stitches

CAUTION: DO NOT USE EXCESSIVE FORCE TO MOVE THE ZIP SLIDER. THIS WILL CAUSE DAMAGE TO THE ZIP TEETH.

- (g) Move the zip slider towards the end of the zip track. If the zip slider does not move then do the steps that follow:

- 1 Use cutting pliers to cut the zip slider spine. Refer to **Figure 4**.

NOTE: The zip slider will break into two halves when the zip slider spine is cut.

- 2 Remove the cut pieces of zip slider without damaging the zip track.

- (h) Put the metal zip slider into the zip cover and push it fully through.

NOTE: The metal zip slider can be difficult to remove through the zip cover. If necessary remove the stitching from one side of the zip cover.



FIGURE 4
Cut the zip slider spine

(2) Install the outer resin zip slider:

NOTE: Make sure that the flat side of the resin zip slider is to the inside of the liferaft when the zip is closed.
Refer to **Figure 5**.

- (a) Get two 500 mm lengths of 525 lb cord.
 - (b) Make a cord loop for the resin zip slider:
 - 1 Put one end of one length of 525 lb cord through the resin zip slider eye and pull it through half way.
 - 2 Collect the flying ends of the 525 lb cord and tie them together with an overhand knot.
 - (c) Do step (b) again to attach one more 525 lb cord loop to the eye of one more resin zip slider.
 - (d) Align the outer resin zip slider evenly onto both zips and pull the zip closed for a distance of 75 mm (3"). Refer to **Figure 5**.
 - (e) Use 4 kgf thread to stitch the zip ends together.
 - (f) If you removed the stitching at step B. (1) (h) then use 4 kgf thread to stitch the zip cover again.
 - (g) Put the outer resin zip pull cord through the zip teeth to make sure that it does not become trapped inside. Refer to **Figure 6**.
- (3) Do steps (1) and (2) again to remove one more outer metal zip slider and install one more outer resin zip slider.



FIGURE 5
Orientate and align the outer resin zip slider
(metal zip slider shown for illustrative purpose only)



FIGURE 6
Put the outer resin zip pull cord through the zip teeth

- (4) Remove the inner metal zip slider:
 - (a) Fully deflate the liferaft.
 - (b) Go to the end of the inner zip.
 - (c) Remove the metal zip slider cord loops.
 - (d) Use a stitch picker to carefully remove the zip securing stitches from the back of the zips. Refer to **Figure 3**.

CAUTION: DO NOT USE EXCESSIVE FORCE TO MOVE THE ZIP SLIDER. THIS WILL CAUSE DAMAGE TO THE ZIP TEETH.

- (e) Move the zip slider towards the end of the zip track.

(5) Install the inner resin zip slider:

NOTE: Make sure that the flat side of the resin zip slider is to the inside of the liferaft when the zip is closed.
Refer to **Figure 5**.

- (a) Align the inner resin zip slider evenly onto both zips and pull the zip closed. Refer to **Figure 6**.
 - (b) Use 4 kgf thread to stitch the zip ends together.
 - (c) Put the inner resin zip slider into the canopy zip channel and push it fully through.
 - (d) Get two 500 mm lengths of 525 lb cord.
 - (e) Make a cord loop for the resin zip slider:
 - 1 Put one end of one length of 525 lb cord through the resin zip slider eye and pull it through half way.
 - 2 Collect the flying ends of the 525 lb cord and tie them together with an overhand knot.
 - (f) Do step (e) again to attach one more 525 lb cord loop to the eye of one more resin zip slider.
- (6) Do steps (4) and (5) again to remove one more inner metal zip slider and install one more inner resin zip slider.

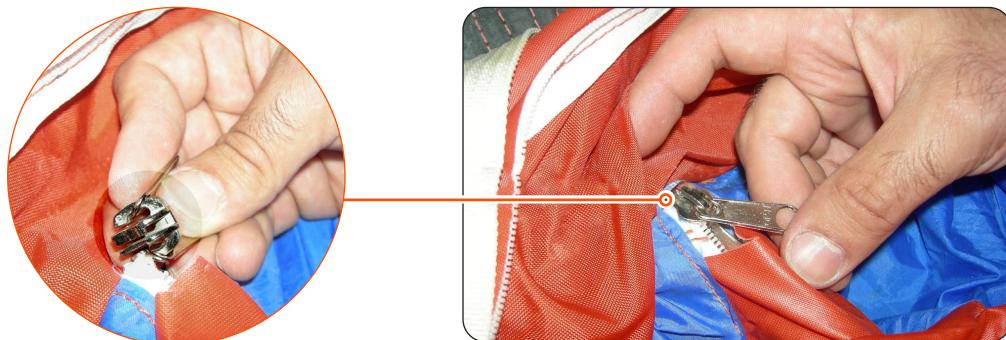


FIGURE 6
Orientate and align the inner resin zip slider
(metal zip slider shown for illustrative purpose only)

7. Recording

- A. For each liferaft to which this service bulletin has been applied, complete the appropriate record card(s).
 - (1) Record details of the service onto the service record card. In the appropriate field, write "SB 12/21 Ver.1 APPLIED".

8. Reporting

- A. None required.

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Service provider:

Associated Publications: M269-00, M269-02, M271 & M275

As part of Survitec procedures, each technician who is trained to service the equipment affected by this publication must read and fully understand this publication.

When each technician has read and fully understood the publication, they must complete and sign the table below.

Keep this table with this publication.

Each person named below has read and fully understood this publication:

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