

Servicebulletin – Materiell

Materiellsjef F/NLF kommuniserer pålegg omkring forhold som ansees som vesentlige for å oppnå de målsettinger som er satt for materiellarbeidet via denne Servicebulletin. Målgruppen for Service bulletinen er Materiellkontrollører, Hovedinstruktører og andre nøkkelpersoner i miljøet.

SERVICEBULLETIN – 2022-01

- HENVISNING:** Aerodyne ICON AAD Cutter placement, TB-250122 (vedlagt).
- FORMÅL:** Avklare grad av nødvendighet og prosedyre for eventuell modifisering av ICON rigger
- IDENTIFIKASJON:** ICON i IX-serien, størrelser I-1 til I-5/S-5 utstyrt med nødåpner.
- BAKGRUNN:** Aerodyne Research LLC har utstedt et bulletin som omhandler anbefalt flytting av kutterplassering i henhold til et eldre bulletin fra 25. januar 2008. Bakgrunnen for dette er ny testing på bakken utført av det franske fallskjermforbundet. Det ble oppdaget noen unormaliteter ved aktiveringen av reserveskjermen når den aktiveres gjennom kutteren på nødåpneren.
- SERVICE:** **Til orientering for eiere av Icon rigger og MKer.**
- UTFØRELSE:** **Dersom ønsket av eieren, kan kutter flyttes av MR etter stegene i SB 210108.**
- DISTRIBUSJON:** Klubber
Hovedinstruktører
Materiellkontrollører
SU
Sky Design Verksted
F/NLFs internet sider
Forsvaret
Luftfartstilsynet
SkyVoss

Oslo, 10. februar 2022

Anders Opsal Mæland
materiellsjef F/NLF



Aerodyne Research LLC
1725 Lexington Ave
Deland, FL 32724
USA

info@flyaerodyne.com

Technical Bulletin – AAD Cutter Placement

Date of Issue: 25th January 2022

Subject: Aerodyne ICON AAD Cutter placement

Bulletin: TB-250122

Status: Recommended

Background:

During a recent series of static ground testing with activation of an AAD, it has been determined that on certain sizes of the Aerodyne Research Icon container system, some abnormalities in the deployment of the reserve pilot chute have been recorded. Tests were performed with fully packed containers (main / reserve canopy in the container) to replicate non-pull situations by the jumper.

Although static ground tests do not fully replicate the function of the equipment in live conditions with surrounding airflow and movement of the jumper, we recognize the concern from such results.

The Icon container system has been in use since 2002 and has from that time thousands of reserve deployments and many AAD activations with subsequent saves of life. No incidents of the reserve system have been reported under use in live conditions.

The French Parachute Federation has already in 2008 on their own account determined a preferred AAD cutter location above the reserve pilot chute. At that time, Aerodyne Research tested and approved an alternative AAD cutter location upon request (reference to Service Bulletin SB210108). To our knowledge, the French Parachute Federation has had no other observations or experiences from real-life use of the Icons with this cutter placement compared to what is the regular position of the cutter on the remainder of the Icons in the rest of the world.

Reasoning:

Static ground test videos which highlight different equipment not functioning properly are becoming more commonly accessible and shared which can cause insecurity to the users. The scenario of hesitations or delays of reserve openings being tested on the ground are not uncommon or unknown throughout the skydiving industry.

To address this concern, and to introduce an improvement in the AAD integration, Aerodyne Research recommends the AAD cutter placement to be moved from the existing position on flap #1 (underneath the pilot chute) in the reserve container to flap #3 (above the reserve pilot chute) on Icon containers in the IX- series from sizes I-1 through I-5/S-5 which are fitted with an AAD.

Recommended action:

Move the AAD cutter placement from current placement on reserve flap #1 to reserve flap #3 at the owners' earliest convenience.

Since there are no practical changes in the construction of the reserve container referring to the AAD cutter placement since the French bulletin on request from 2008, the modification instructions in this bulletin, SB210108, still provide general direction to perform the modification and is included as part of this bulletin.

Products affected by the bulletin:

Icon containers in the IX- series from sizes I-1 through I-5/S-5 which are fitted with an AAD.

Personnel:

Master rigger or foreign equivalent.

Conclusion:

Skydiving equipment is rigorously tested to work in the conditions it is intended to be used for. After performing extensive testing in proper conditions, Aerodyne Research remains confident that the reserve activation of the AAD is safe and fully functional in its working environment.

When new knowledge becomes available this leads to further development and creates better equipment. When a change or an improvement is implemented, it does not necessarily imply that previous solutions suddenly become unsafe.

At this opportunity, Aerodyne Research would like to reiterate the need to always follow the manufacturer's instructions for proper packing and maintenance of all parts of any parachute system, such as reserve loop lengths and proper sizing of all components etc.

Authority:

AD Hayhurst
(sign)

President
Aerodyne Research LLC



SERVICE BULLETIN SB210108

ICON CONTAINER ALTERNATE AAD CUTTER POSITION Issue Date : January 25, 2008

Page 1 of 10

Status : Bulletin Upon Request

Identification: All ICON Harness/Container.
Part Number: P120, P125

Background: French Parachute Federation have certified it compulsory for all Harness/Containers used in France must have the AAD cutter fitted above the reserve spring loaded pilot chute.

The ICON Harness/Container was designed, tested and certified with the AAD cutter positioned below the reserve spring loaded pilot chute and positioned on reserve Flap #1. Aerodyne has also certified the AAD cutter to be positioned above the reserve spring loaded pilot chute. Both positions of the AAD are approved and effective. The Technical Bulletin since classified as optional.

Materials: Size E Nylon Thread
43mm TYPE 12 Webbing
25mm TYPE 3 Tape



SERVICE BULLETIN SB210108

ICON CONTAINER ALTERNATE AAD CUTTER POSITION Issue Date : January 25, 2008

Page 2 of 10

Pictures:

1. Removal of Existing AAD Cutter Position



1.1 Reserve Flap #1



1.2 Remove Type 12 Webbing



1.3 Carefully un-pick edge binding and cut TYPE 12 Webbing



1.4 Cut TYPE 12 Webbing



SERVICE BULLETIN SB210108

ICON CONTAINER ALTERNATE AAD CUTTER POSITION Issue Date : January 25, 2008

Page 3 of 10

cont. - Removal of Existing AAD Cutter Position

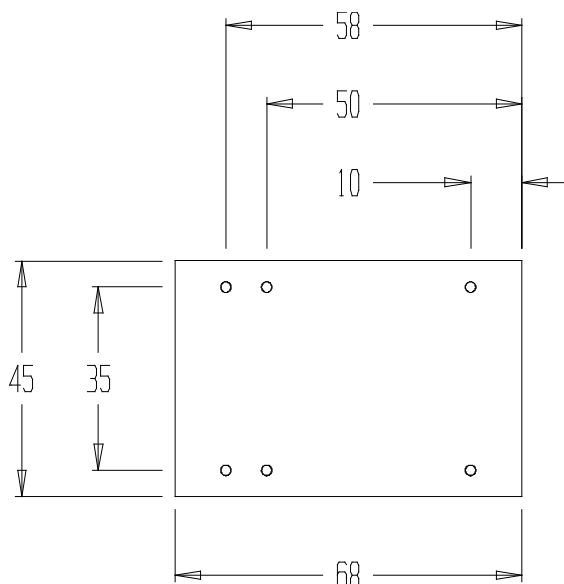


1.5 Carefully unpick Elastic Keeper.
Elastic Keeper is reused



1.6 Rebind. Reserve Flap #1 is complete.
Binding stitch shown in white. Back tack
at least 10mm

2. Preparation



2.1 TYPE 12 Webbing Template.
Dimensions in mm



2.2 Cut TYPE 12 Webbing as per Template

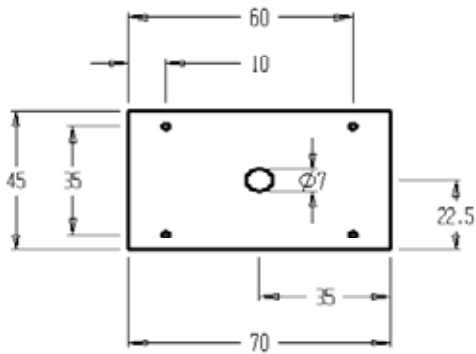


SERVICE BULLETIN SB210108

ICON CONTAINER ALTERNATE AAD CUTTER POSITION Issue Date : January 25, 2008

Page 4 of 10

cont. -Preperation



2.3 TYPE 12 Webbing Template.
Dimensions in mm



2.4 Cut TYPE 12 Webbing as per Template



2.5 Stitch Elastic Keeper onto TYPE 12 Webbing as shown. Use Nylon E Thread



ICON CONTAINER ALTERNATE AAD CUTTER POSITION Issue Date : January 25, 2008

Page 5 of 10

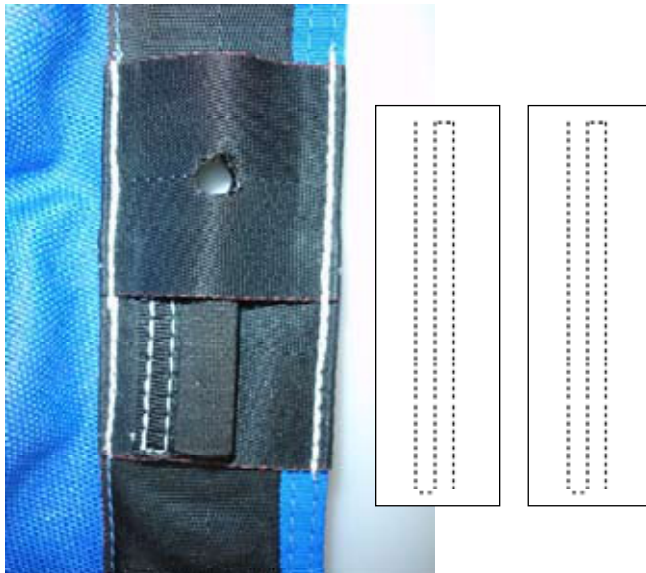
3. New AAD Cutter Position



3.1 Stitch TYPE 12 kit onto Reserve Flap #2 as Shown



3.2 Fold edge of TYPE 12 webbing and stitch opposite side down on top of Edgebinding



3.3 Stitch Type 12 AAD Cover Piece as Shown



ICON CONTAINER ALTERNATE AAD CUTTER POSITION Issue Date : January 25, 2008

Page 6 of 10

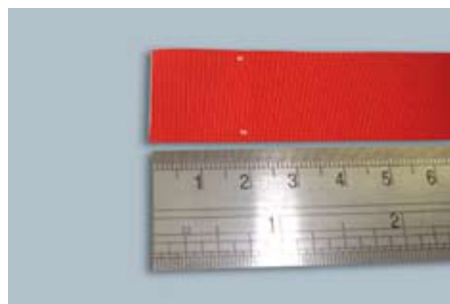
4. AAD Cutter Cable Tunnel



4.1 Finished Product



4.2 Measure and mark 20mm from Intersection between Flap #1 and Flap #2. This mark is the alignment mark for the start of the tunnel



4.3 Prepare Tunnel with 25mm TYPE 3 Tape. Match size to Container



SERVICE BULLETIN SB210108

ICON CONTAINER ALTERNATE AAD CUTTER POSITION Issue Date : January 25, 2008

Page 7 of 10

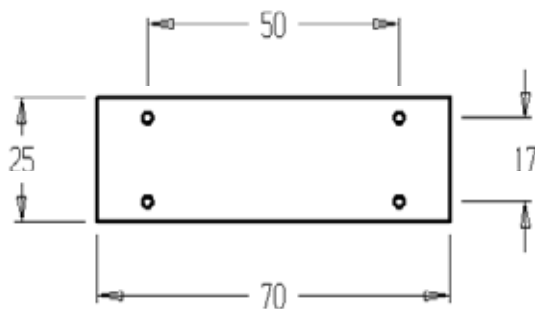
cont. -AAD Cutter Cable Tunnel



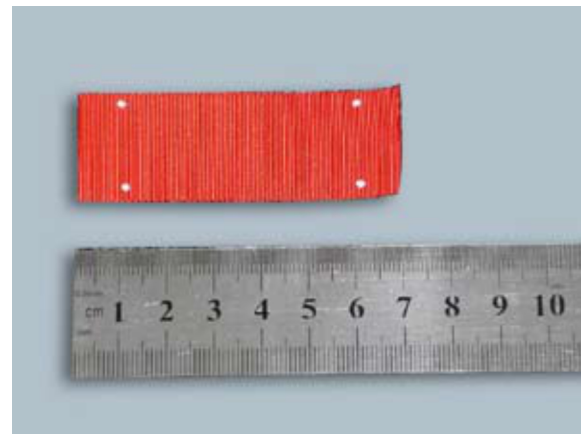
4.4 Start of Tunnel at 20mm mark.
Backtack at least 10mm



4.5 Finish Tunnel as shown. Backtack at least 10mm



4.6 TYPE 3 Template.
Dimensions in mm



4.7 Cut 25mm TYPE 3 Tape



SERVICE BULLETIN SB210108

ICON CONTAINER ALTERNATE AAD CUTTER POSITION Issue Date : January 25, 2008

Page 8 of 10

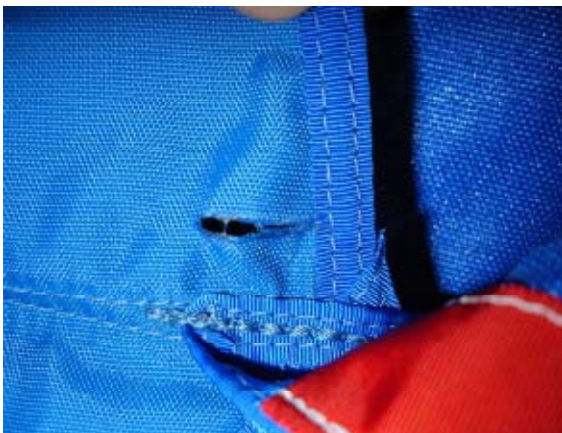
cont. -AAD Cutter Cable Tunnel



4.8 Stitch TYPE 3 Tape as shown



4.9 Mark 10mm along Flap #1 from intersection as shown



4.10 Use a hot knife and cut 15mm slot in Flap #1 as shown



4.11 Finished Product



ICON CONTAINER ALTERNATEAAD CUTTERPOSITION Issue Date : January 25, 2008

Page 9 of 10

5. Packing



5.1 Thread Cutter thru slit in Panel #1



5.2 Thread Cutter as shown



5.3 Thread Cutter as shown



5.4 Thread Cutter as shown



SERVICE BULLETINSB210108

ICON CONTAINER ALTERNATEAAD CUTTERPOSITION Issue Date : January 25.2008

Page 10of 10

cont. Packing



5.5Thread Cutter as shown

Authority:

Dominic Hayhurst
Technical Director
Aerodyne Research
12649Race TrackRoad
Tampa Florida 33626USA
Tel +1 813 891 6300
dominic@flyaerodyne.com
www.flyaerodyne.com

Distribution List:

1. Aerodyne Website www.flyaerodyne.com
2. All French Aerodyne Distributors
3. Aero Tech Products Inc
4. FPF – French Parachute Federation