



**MANUFACTURER INSTRUCTION
&
MAINTENANCE MANUAL**

**CARGO RESTRAINTS, STRAPS, NETS
& ASSEMBLIES**

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General

This manual is provided for use with SETS Cargo Tie Down Straps & Net Assemblies and provides operating and maintenance instruction to be used by the operator/user in inspecting the equipment.

If SETS Cargo Restraint/Net is used in conjunction with other equipment, tie down rings & assemblies, reference should be made to the Manufacturer User/Instructions/Installation documents &/or manuals for that equipment for information concerning technical data, instructions for use and operational limitations.

Any approvals associated with this equipment prescribe the minimum performance standards, which have been met by this assembly for the purpose of a person using this equipment for aircraft internal restraint.

This manual should not be construed as an approval for installation or use of the cargo tie down strap on an aircraft. It is the responsibility of the operator to ensure that necessary airworthiness and operational approvals of the applicable National Airworthiness Authority (NAA) are in place prior to operation with the cargo tie down straps installed. If clarification is required, contact your local NAA, or authorised person thereof.

AMENDMENT RECORD

1. All amendments to content are to be recorded below;
2. All new content inserted during an amendment will be shown with a vertical line in the margin indicating the extent of the amended portion.

Amendment		Summary	Incorporated	
No.	Date	Sections/Pages Affected	Date	Name
1	03-2023	Issue	03-2023	JB
2	03-2023	Page 6, 4. Maintenance – General paragraph iii.	03-2023	JB
3	04-2024	Header Correction, Title Page	04-2024	JB
4				
5				
6				
7				
8				
9				
10				

CONTENTS

PAGE

1. COVER PAGE
2. GENERAL – INFORMATION
3. AMENDMENT RECORD
4. CONTENTS
5. 1. LIMITATIONS OF USE
2. DESIGN & CONSTRUCTION
6. 3. STORAGE
4. MAINTENANCE - GENERAL
5. INSPECTION
7. 6. SALTWATER IMMERSION
7. 7. FRESH WATER IMMERSION

1. Limitations of Use

SETS cargo restraints are not intended for use for human load.

CAUTION

Any modifications, additions or alterations to any part of the cargo restraint assemblies must be approved prior to use.

If any part of the webbing, hardware or stitching becomes exposed to corrosive or hazardous chemicals, the cargo restraint assembly should be retired from service.

Any repairs must be completed & certified by an approved repairer prior to placing the cargo restraint back into service.

If any part of the assembly is worn or damaged, consult this manual or the manufacturer direct to establish the serviceability of the assembly prior to next use.

SETS cargo restraints have been load tested to satisfy internal load requirements.

The Safe Working Load (SWL) or Ultimate Rated Load (URL) of the SETS cargo restraint assemblies is identified on the items Identification Tag/s attached to the assembly.

2. Design & Construction

Cargo restraints - straps, nets & assemblies

- i. The SETS cargo restraints & assemblies is constructed using heavy-duty webbing, stitching & hardware.
- ii. Webbing width is 25mm, 35mm, 38mm, 44mm, 48mm & 50mm.
- iii. The webbing used is either polyester or nylon, to suit the design &/or application.
- iv. The fabric used is vinyl or canvas, to suit the design &/or application.
- v. The webbing & fabric used in the construction of the cargo tie down strap has been tested and found compliant against flammability requirements of FAR Part 25, regulation 25.853 and Appendix F (12 second Vertical Burn Test).

3. Storage

- i. SETS equipment should be stored in a secure area which is free from dirt, oil, grease, moisture, direct sunlight, extreme changes in temperature & rodents.
- ii. SETS equipment should be stored away from non-aircraft/industrial products.

CAUTION

Inappropriate storage of the SETS equipment may lead to a deterioration of the webbing, stitching and hardware.

4. Maintenance - General

- i. The recommended maintenance schedules for the inspection of SETS equipment are as follows:
 - a) Before & After Use:
- ii. The recommended maintenance repair of SETS Equipment is 'on condition' due to damage or wear.
- iii. SETS cargo restraints have a 10 year service life.
 - a. Remove from service & destroy all cargo restraint assemblies when it reaches 10 years service life.

5. Inspection

- i. Before & After Use:

SETS equipment should be inspected prior to use:

- a) Inspect the webbing for any signs of cuts, abrasions & wear:
 - i. If the webbing is hard & un-malleable, replace it.
- b) Inspect the fabric for any signs of cuts or wear & determine if repairs are required:
 - i. Vinyl fabric tears & holes may be repaired with a glued or sewn patch using same material.
 - ii. Canvas fabrics may be repaired with a sewn patch using same material.
- c) Inspect the hardware for signs of corrosion:
 - i. Light surface corrosion on the main hardware body can be cleaned off & lubricated.
 - ii. Heavier corrosion on the webbing bar may require replacement of hardware & webbing due to possible damage to webbing.
 - iii. Corrosion in the gate or latch mechanism & springs can result in the hardware not closing completely or correctly & will need to be replaced.
- d) Inspect the stitching for any broken, worn or missing stitches.

- e) Inspect the ID Tag to ensure it is legible & intact.

6. Salt Water Immersion

To clean the assembly:

- i. Thoroughly wash the complete assembly in warm water.

CAUTION

If using soaps & detergents in the cleaning of SETS equipment, the product should be checked to ensure there would be no detrimental effect on the webbing, stitching & hardware.

- ii. Thoroughly rinse the entire assembly in clean water.
- iii. Air-dry the assembly out of sunlight & away from any heating elements.
- iv. When dry, lightly lubricate all hardware with WD40 or similar. Spray the lubricant onto a rag & wipe over the hardware or carefully spray the hardware. Blow the excess off the assembly with an air compressor & complete the 'Before & After Use' inspection.
- v. Ensure the entire assembly is dry prior to use.

7. Fresh Water Immersion

To clean the sling:

- i. Thoroughly rinse the entire assembly in clean water.
- ii. Air-dry the assembly out of sunlight & away from any heating elements.
- iii. When dry, lightly lubricate all hardware with WD40 or similar. Spray the lubricant onto a rag & wipe over the hardware or carefully spray the hardware. Blow the excess off the assembly with an air compressor & complete the 'Before & After Use' inspection.
- iv. Ensure the entire assembly is dry prior to use.

CAUTION

If using lubricants in the care of SETS equipment, the product should be checked to ensure there would be no detrimental effect on the webbing, stitching & hardware.