

MIL-H-10050A
 6 February 1951
~~SUPERSEDED~~
 MIL-H-10050
 28 November 1949

MILITARY SPECIFICATION

HARDWARE, AIRBORNE EQUIPAGE

1. SCOPE

1.1 Scope.- This specification covers hardware items made of ferrous metals used on equipment peculiar to airborne troop needs.

1.2 Classification.- Hardware shall be of the following types, as specified (see 6.1):

- TYPE I - Link, Snap, Quick Release, 3 Inches (Symbol K).
- Type II - Loop, Slide, 1-3/4 Inches, Style 1 (Symbol C).
- Type III - Loop, Strap, 1-3/4 Inches by 7/16 Inches (Symbol D).
- Type IV - Loop, Triangular, 1-3/4 Inches (Symbol L).
- Type V - Snap, Flanged Tongue, Loop Eye, 1-3/4 Inches (Symbol E).
- Type VI - Snap, Quick Release (Symbol A).
- Type VII - Buckle, Quick Adjustable, 1-3/4 Inches (Symbol M).
- Type VIII - Fastener, Quick Release, 1-3/4 Inches (Symbol P).
- Type IX - Link, Snap, Quick Release, 1-3/4 Inches (Symbol S).

2. APPLICABLE SPECIFICATIONS, OTHER PUBLICATIONS AND DRAWINGS

2.1 Specifications.- The following specifications, of the issue in effect on date of invitation for bids, form a part of this specification:

FEDERAL SPECIFICATIONS

- P-S-661 - Solvent; Dry-Cleaning.
- MH-B-591 - Boxes; Wood-Cleated-Fiberboard.
- MH-B-601 - Boxes; Wood-Cleated-Plywood (for Domestic Shipment).
- MH-B-621 - Boxes; Wood, Nailed and Lock-Corner.
- MH-B-631 - Boxes; Wood, Wirebound, for Domestic Shipment.

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- QQ-S-624 - Steel, Alloy; Bars (General Purpose).
- QQ-W-401 - Wire; Phosphor-Bronze, Spring.
- LLL-B-631 - Boxes; Fiber, Corrugated (for Domestic Shipment).
- LLL-B-636 - Boxes; Fiber, Solid (for Domestic Shipment).

MILITARY SPECIFICATIONS

- JAN-P-103 - Packaging and Packing for Overseas Shipment - Boxes; Wood Cleated; Solid Fiberboard.
- JAN-P-105 - Packaging and Packing for Overseas Shipment - Boxes, Wood, Cleated, Plywood.
- JAN-P-106 - Packaging and Packing for Overseas Shipment - Boxes; Wood, Nailed.
- JAN-B-107 - Boxes, Wood, Wirebound (Overseas Type).
- JAN-B-121 - Barrier-Materials, Greaseproof.
- JAN-P-125 - Packaging and Packing for Overseas Shipment - Barrier-Materials, Waterproof, Flexible.
- JAN-P-140 - Packaging and Packing for Overseas Shipment - Adhesives, Water-Resistant, Case-Liner.
- MIL-L-3150- Lubricating-Oil, Preservative, Medium.

U. S. ARMY SPECIFICATIONS

- 48-5 - Wire, Soft Iron and Steel, Bare and Coated.
- 57-0-2 - Finishes, Protective, for Iron and Steel Parts.
- 57-136 - Steel, Carbon and Alloy; Sheets and Strips.
- 57-136-2 - Steel, Spring Tempered, Strip (1095).
- 57-136-8 - Steel, Chrome-Molybdenum, Sheet or Strip, (X-4130).
- 94-40645 - Marking; Exterior, Domestic and Export Shipment, by Contractors.
- 100-2 - Standard Specification for Marking Shipments by Contractors.

NAVY DEPARTMENT SPECIFICATION**General Specifications for Inspection of Materials. 1/**

(Army.- Copies of specifications should be obtained from the procuring agency or as directed by that agency. Both the title and identifying number or symbol should be stipulated when requesting copies.)

(Navy.- Copies of Federal, Military, and Navy Department specifications may be obtained upon application to the Bureau of Supplies and Accounts, Navy Department, Washington 25, D. C., except that activities of the Armed Forces should make application to the Commanding Officer, Naval Supply Center, Norfolk 11, Va. Both the title and identifying number or symbol should be stipulated when requesting copies.)

1/ Applicable only to Navy purchases.

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2.2 Other publications.- The following publications, of the issue in effect on date of invitation for bids, form a part of this specification:

MILITARY STANDARD

MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes.

(Copies may be obtained as indicated for specifications.)

BUREAU OF SUPPLIES AND ACCOUNTS PUBLICATION

Navy Shipment Marking Handbook.

(Copies of the Navy Shipment Marking Handbook may be obtained upon application to the Bureau of Supplies and Accounts, Navy Department, Washington 25, D. C., except that activities of the Armed Forces should make application to the Commanding Officer, Naval Supply Center, Norfolk 11, Va.)

2.3 Drawings.- The following drawings, reduced copies attached, form a part of this specification:

QUARTERMASTER CORPS DRAWINGS

4-1-76, Rev. 4 - Hardware, Airborne Equipage (A).
4-1-77, Rev. 3 - Hardware, Airborne Equipage (B).

(Drawings 25 by 33-1/2 inches will be furnished manufacturers, upon request, by the procuring agency or as directed by that agency. The title, identifying number and revision number, if any, shall be stipulated.

3. REQUIREMENTS

3.1 Materials.-

3.1.1 Steel.-

3.1.1.1 Carbon, sheet or strip.- Carbon steel sheet or strip shall conform to Specification 57-136.

3.1.1.2 Strip, spring tempered.- The spring steel shall conform to Specification 57-136-2.

3.1.1.3 Chrome-molybdenum, sheet or strip.- The sheet or strip shall conform to Specification 57-136-8.

3.1.1.4 Chrome-molybdenum, bar stock.- The bar stock shall be forging quality and conform to Specification QQ-S-624.

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3.1.1.5 Corrosion-resisting sheet or strip and bar stock.- The sheet or strip and bar stock corrosion-resisting steel shall be of composition commercially designated as type 302.

3.1.2 Phosphor bronze spring wire.- The spring wire shall conform to Specification QQ-W-401.

3.1.3 Rivet wire.- Wire for rivets shall conform to type I, rivet grade of Specification 48-5.

3.2 Construction.- Construction of the hardware shall conform to the design, shape, and dimensions shown on drawings and as specified herein. Assembly of item symbols A, E and P shall be as specified in 3.3.

3.2.1 Forgings and stampings.- Forgings and stampings shall be free from seams, laps, cracks, porosity, slivers, scale or other defects that might affect their serviceability.

3.2.2 Rivets.- The rivets shall be securely set to retain the flanged tongue and the steel spring in position. The flanged tongue shall rotate freely about hinge rivet without being excessively loose.

3.3 Finish.- After complete fabrication the hardware and/or components thereof shall be thoroughly cleaned by any method with an acceptable recognized solvent. The single piece items of hardware and the component parts of items (symbols A, E and P) except the ball bearing springs symbol G, balls, plugs, and pins shall be given an electro-plate coating conforming to type I, class IS or KS of Specification 57-G-2. After coating has been completed, the powder residue deposit resulting from the plating shall be removed. The component parts of items (symbols A, E and P) shall then be assembled into finished pieces of hardware as shown on drawings.

3.4 Workmanship.- Finished hardware shall be clean, well made and free from any defects that may affect appearance or serviceability. Edges on all hardware, which may cause injury to hands or wear to the material on which it is attached, shall be smooth.

4. SAMPLING, INSPECTION, AND TEST PROCEDURES.

4.1 Sampling.- Sampling shall be conducted in accordance with Standard MIL-STD-105.

4.2 Inspection.- Inspection will be made by the Government to determine compliance with this specification.

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5. PREPARATION FOR DELIVERY

5.1 Preservation.- All hardware items shall be thoroughly cleaned with dry-cleaning solvent conforming to Specification P-S-661. After thoroughly dried, all items shall be coated with medium preservative oil conforming to Specification MIL-L-3150. Excess oil shall be allowed to drain off before packaging.

5.2 Packaging.- Hardware items of only one type shall be packed in corrugated or solid fiberboard containers, style RSC, conforming to Specifications LLL-B-631 or LLL-B-636, respectively. The minimum bursting strength of the fiberboard shall be 200 p.s.i. Only one type and style container shall be used for any one contract.

5.2.1. Each fiberboard container shall be lined with an unsealed case-liner made of greaseproof barrier-material, grade A, type I, conforming to Specification JAN-B-121. Each container shall be agitated from time to time while being filled to insure a compact package. Before closing the container, the greaseproof barrier shall be folded over the contents and overlapped.

5.2.2 In no case shall the gross weight of the hardware and the container exceed 20 pounds. All flaps of the container shall be securely sealed with an adhesive commercially used for the specific product being packed by application throughout the entire area of contact between flaps.

5.3 Packing.

5.3.1 For domestic shipment.- An even number of fiberboard containers, containing the same type hardware item, shall be packed in any one of the following domestic shipping containers. However, in no case shall the gross weight of the container exceed 150 pounds. Only one type and style shipping container shall be used for any one contract.

Boxes; Wood-Cleated-Fiberboard	- Specification NN-B-591, Style A or B.
Boxes; Wood-Cleated-Plywood	- Specification NN-B-601, Style A or B.
Boxes; Wood, Nailed and Lock-Corner	- Specification NN-B-621, Style 4.
Boxes; Wood, Wirebound	- Specification NN-B-631, Style 1, 2, or 2A.

5.3.2 Overseas.- Method and weight of packing hardware items for overseas shipment shall be as stipulated for domestic shipment. Prior to packing hardware items for overseas shipment, each corrugated or solid fiberboard intermediate container shall be wrapped with waterproof barrier-material, type C-2, conforming to Specification JAN-P-125. Closures shall be completely sealed with a continuous seam, at least 3/4 inch wide, of water resistant adhesive complying with Specification JAN-P-140. The overseas shipping con-

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tainers shall conform to any one of the following. Only one type and style shipping container shall be used for any one contract.

Boxes; Wood Cleated; Solid
Fiberboard

- Specification JAN-P-103, style A or B, strapped, for type 2 load.

Boxes; Wood, Cleated,
Plywood

- Specification JAN-P-105, style A or B, strapped, for type 2 load.

Boxes; Wood, Nailed

- Specification JAN-P-106, style 4, strapped, for type 2 load.

Boxes; Wood, Wirebound

- Specification JAN-B-107, style 1, 2, or 2A, strapped, for type 2 load, except that the thickness of boards of groups II and III shall be not less than 1/4 inch and the thickness of boards of group IV shall be not less than 7/32 inch.

5.4 Labeling and marking.-

5.4.1 Intermediate containers.- Each corrugated or solid fiberboard intermediate container within a domestic shipping container; and each corrugated or solid fiberboard intermediate container and its waterproof barrier-material wrapper within an overseas shipping container shall be legibly labeled or stenciled with the following information:-

Nomenclature

Stock Number

Quantity

Name and address of manufacturer

Contract or order number

5.4.2 Exterior containers.- Both domestic and overseas exterior shipping containers for the Army shall be marked in accordance with Specification 100-2, except that corner service color markings shall not be required on domestic type shipping containers; for the Navy, in accordance with the Navy Shipment Marking Handbook.

6. NOTES

6.1 Ordering data.- Procurement documents should specify the following:

- a. Title, number and date of this specification.
- b. Types of hardware required (see 1.2).
- c. Sampling and inspection procedures (see 4.1 and 4.2).
- d. Whether items are to be packed for domestic or overseas shipment (see 5.3).
- e. Stock number (see 6.2).

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6.2 Approved nomenclature.- The approved Quartermaster Corps nomenclatures of the items covered by this specification are as follows:

- Link, Snap, Quick Release, 3 Inches.
(Stock No. Unassigned.)
- Loop, Slide, 1-3/4 Inches, Style 1.
(Stock No. Unassigned.)
- Loop, Strap, 1-3/4 Inches by 7/16 Inch.
(Stock No. Unassigned.)
- 2 Loop, Triangular, 1-3/4 Inches.
(Stock No. Unassigned.)
- Snap, Flanged Tongue, Loop Eye, 1-3/4 Inches.
(Stock No. Unassigned.)
- Snap, Quick Release.
(Stock No. Unassigned.)
- Buckles, Quick Adjustable, 1-3/4 Inches.
(Stock No. Unassigned.)
- Fastener, Quick Release, 1-3/4 Inches.
(Stock No. Unassigned.)
- Link, Snap, Quick Release, 1-3/4 Inches.
(Stock No. Unassigned.)

Notice.- When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data, is not to be regarded by implication or otherwise as in any manner licensing the holder or other person or corporation, or conveying any rights or permission to manufacture, use or sell any patented invention that may in any way be related thereto.

Custodian:

Army - Quartermaster Corps.

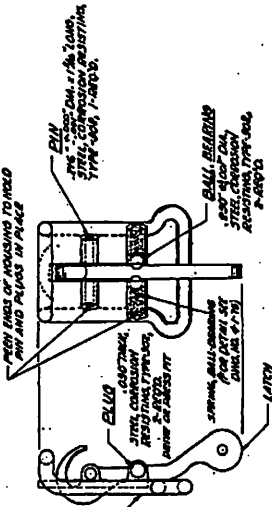
Other interest:

Army - OST

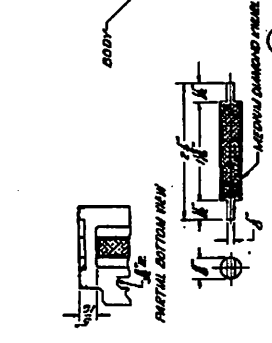
Navy - AS



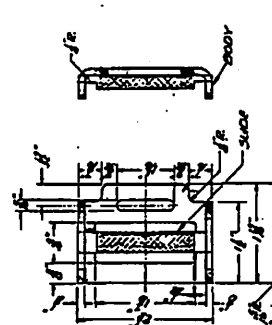
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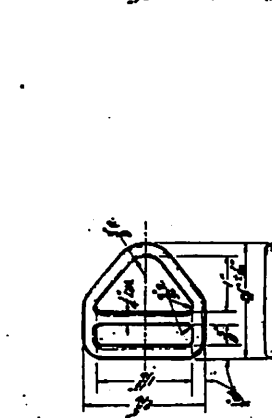
FASTENER, QUICK RELEASE, 1 1/4" (C)



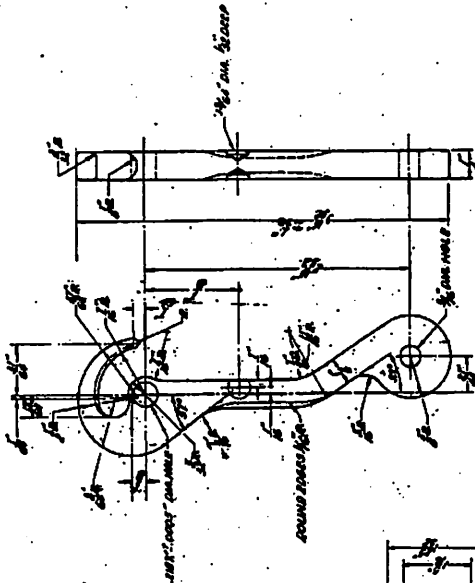
SLIDE, BUCKLE, QUICK ADJUSTABLE (N)



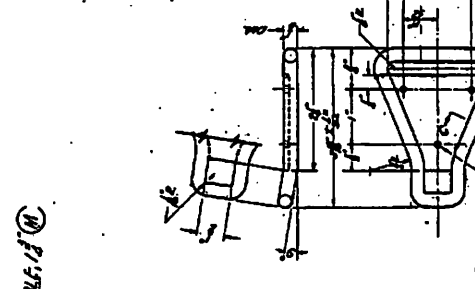
BUCKLE, QUICK ADJUSTABLE, 1 1/4" (N)



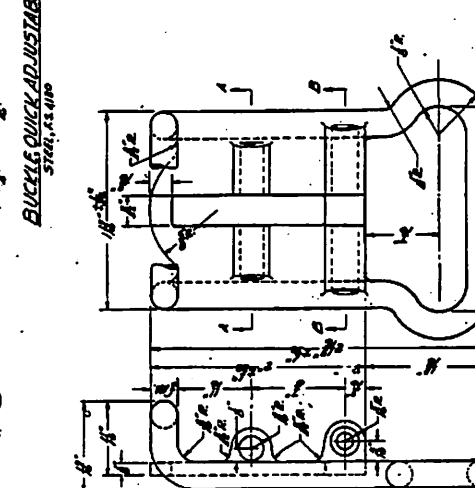
LOOP, TRANSLABLE, 1 1/4" (C)



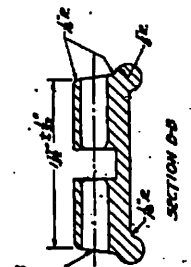
LATCH, FASTENER, QUICK RELEASE (C)



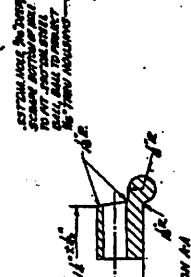
LINK, BUCKLE, QUICK RELEASE, 1 1/4" (C)



BODY, FASTENER, QUICK RELEASE, 1 1/4" (C)



SECTION A-A



SECTION B-B

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
1	FASTENER, QUICK RELEASE, 1 1/4" (C)	1	EA
2	SLIDE, BUCKLE, QUICK ADJUSTABLE (N)	1	EA
3	BUCKLE, QUICK ADJUSTABLE, 1 1/4" (N)	1	EA
4	LOOP, TRANSLABLE, 1 1/4" (C)	1	EA
5	LATCH, FASTENER, QUICK RELEASE (C)	1	EA
6	LINK, BUCKLE, QUICK RELEASE, 1 1/4" (C)	1	EA
7	BODY, FASTENER, QUICK RELEASE, 1 1/4" (C)	1	EA
8	SECTION A-A	1	EA
9	SECTION B-B	1	EA

UNLESS OTHERWISE STATED, ASSUMING
TOLERANCES ARE: DIMENSIONS IN
INCHES AND FRACTIONS