

INCH-POUND

A-A-52113  
March 13, 1992

## COMMERCIAL ITEM DESCRIPTION

## HANDCUFFS AND LEG IRONS

The General Services Administration has authorized the use of this Commercial Item Description as a replacement for Military Specification MIL-H-20050.

## 1. CLASSIFICATION

1.1 Classification. This Commercial Item Description covers one type of metallic handcuffs and one type of leg irons as specified (see 5.1 and 5.2):

- Type I - Handcuffs with keys
- Type II - Leg irons with keys

## 2. SALIENT CHARACTERISTICS

2.1 Design and construction. The design and construction of the handcuffs, leg irons, and keys shall be as shown in figure 1. Material for all parts, including keys, shall conform to grade designation 1005-1020 or 1050 carbon steel of ASTM A 429. The handcuffs and leg irons shall be capable of withstanding a 500 pound static load. Each pair of handcuffs and leg irons shall contain a right and left configuration, as shown in figure 1. The cheek plates with keyhole shall be on the same side and the jaws shall rotate on the same side of the longitudinal center line.

2.1.1 Pins, bolt and key. Bolt pins and key pins shall have diameters of a minimum of 0.002 inch larger than the required holes in the cheek plates. Heading of the pins shall be considered as an alternative method of securing the pins, providing sharp edges do not result.

2.1.2 Locks. Each handcuff and leg iron shall be provided with a double-locking mechanism which shall be capable of automatically locking when it is applied to the wrist or ankle, and capable of securing the jaw of the handcuff or leg iron against movement in either direction. Locks shall be capable of being released by the use of a key without undue force. Locking mechanisms

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Commander, U.S. Army Natick Research, Development, and Engineering Center,  
ATTN: STRNC-UXT, Natick, MA 01760-5017.

AMSC N/A

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shall not unlock without the use of a key. The locking mechanism shall be capable of withstanding a static load of 500 pounds without fracture or distortion of the mechanism when loaded in any direction indicated by figure 1.

2.1.3 Handcuff. Each handcuff shall have a minimum opening of 2 inches for wrist insertion. The inside perimeter shall be a minimum of 8 inches when the jaw is at the first notch entering the locking mechanism, and shall have a maximum of 6-1/2 inches when the jaw is at the last notch entering the locking mechanism. The maximum length of the handcuffs shall be 9-1/2 inches.

2.1.4 Leg iron. Each leg iron shall have a minimum opening of 2-3/4 inches for ankle insertion. The inside perimeter shall be a minimum of 10-1/4 inches when the jaw is at the first notch entering the locking mechanism, and a maximum of 9 inches when the jaw is at the last notch entering the locking mechanism.

2.1.5 Chains. Each pair of handcuffs shall be connected with a chain which shall be 1-1/2 to 2-1/2 inches in length including swivel eyes. Each link shall be welded. The end links shall connect with the swivel eyes which shall be attached to each handcuff or leg iron. The leg irons, including swivel eyes, shall be connected with a chain 14 to 16 inches in length.

2.1.6 Weights. Each pair of handcuffs shall not weigh more than 15 ounces. Each pair of leg irons shall not weigh more than 3 pounds.

2.1.7 Keys. Two keys shall be furnished with each pair of handcuffs, and two keys shall be furnished with each pair of leg irons.

2.2 Finish. Unless otherwise specified (see 5.2), handcuffs and leg irons shall be given an electrodeposited coating in accordance with Service Condition No. 2 of ASTM B 456. Unless otherwise specified (see 5.2), keys supplied with each handcuff or leg iron shall be given an electrodeposited coating in accordance with Service Condition No. 2 of ASTM B 456.

2.3 Workmanship. Each handcuff or leg iron with their two keys shall be sound, smooth, and free from cracks, incomplete fusion, deformation, free from burrs, slivers, sharp edges, dents, tool marks, or corrosion. Components of the handcuffs and leg irons shall not be broken or malformed.

2.4 Marking for identification. The handcuffs or leg irons shall be permanently marked with the manufacturer's name or trademark. Each pair of handcuffs and leg irons shall be provided with operation instructions, legibly printed in indelible ink on the inside of the box or on a separate sheet of waterproof paper placed within each unit pack.

### 3. QUALITY ASSURANCE

3.1 Certification. The contractor shall certify, and maintain substantiating evidence, that the product offered meets the salient

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characteristics and requirements of this Commercial Item Description, and that the product conforms to the producer's own drawings, specifications, standards, and quality assurance practices. The Government reserves the right to require proof of such conformance prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

3.2 Metric product. Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch-pound units, provided they fall within specified tolerances using conversion tables contained in the latest revision of Federal Standard No. 375, and all other requirements of this Commercial Item Description are met. If a product is manufactured to metric dimensions and those dimensions exceed the tolerances specified in the inch-pound units, a request should be made to the contracting officer to determine if the product is acceptable. The contracting officer has the option of accepting or rejecting the product.

3.3 Regulatory requirements. The offeror/contractor is encouraged to use recovered materials in accordance with Public Law 94-580 to the maximum extent practicable.

#### 4. PACKAGING

4.1 Packaging. Each pair of handcuffs or leg irons, with keys attached, shall be unit packed in a paperboard box.

4.2 Packing. Fifty handcuffs or ten leg irons, packaged as specified above, shall be packed in a fiberboard shipping container conforming to style RSC, type CF (variety SW), or SF, class domestic, grade 275 of PPP-B-636.

4.3 Palletization. When specified (see 5.2), shipping containers shall be palletized in accordance with load type Ia of MIL-STD-147. Each prepared load shall be bonded with primary and secondary straps in accordance with bonding means C and D, or film bonding means F or G. Pallet pattern shall be in accordance with the appendix of MIL-STD-147, or as specified in the contract or purchase order.

4.4 Marking. In addition to any special marking required by the contract or purchase order, unit packs, shipping containers, and palletized unit loads shall be marked in accordance with MIL-STD-129.

#### 5. NOTES

5.1 Intended use. The metallic handcuffs and leg irons are intended for use in restricting the physical movement of an apprehended person.

5.2 Ordering data. Acquisition documents must specify the following:

- a. Title, number, and date of this document
- b. Type required (see 1.1).

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- c. When other than electrodeposited coating in accordance with Service Condition No. 2 of ASTM B 456 is required (see 2.2).
- d. When palletization is required (see 4.3).

5.3 Recycled material. It is encouraged that recycled material be used when practical as long as it meets the requirements of this document (see 3.3).

5.4 Sources of documents.

5.4.1 Sources of government documents. Copies of Military and Federal documents are available from:

Standardization Documents Order Desk  
Building 4D  
700 Robbins Avenue  
Philadelphia, PA 19111-5094

5.4.2 Sources for non-Government association documents.

ASTM A 429 - Steel Bars, Carbon and Alloy, Hot-Wrought and Cold-Finished, General Requirements for

ASTM B 456 - Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium

ASTM B 3951 - Standard Practice for Commercial Packaging

All are available from:

The American Society for Testing and Materials (ASTM)  
1916 Race Street  
Philadelphia, PA 19103-1187

MILITARY INTERESTS:

CIVIL AGENCY COORDINATING ACTIVITY:

Custodians

GSA-FSS

- Army - GL
- Navy - NU
- Air Force - 99

PREPARING ACTIVITY:

Army - GL

Review Activities

Project 8465-0092

- Navy - SA
- Air Force - 11, 45, 82, 84
- DLA - CT

User Activities

- Navy - MC, YD

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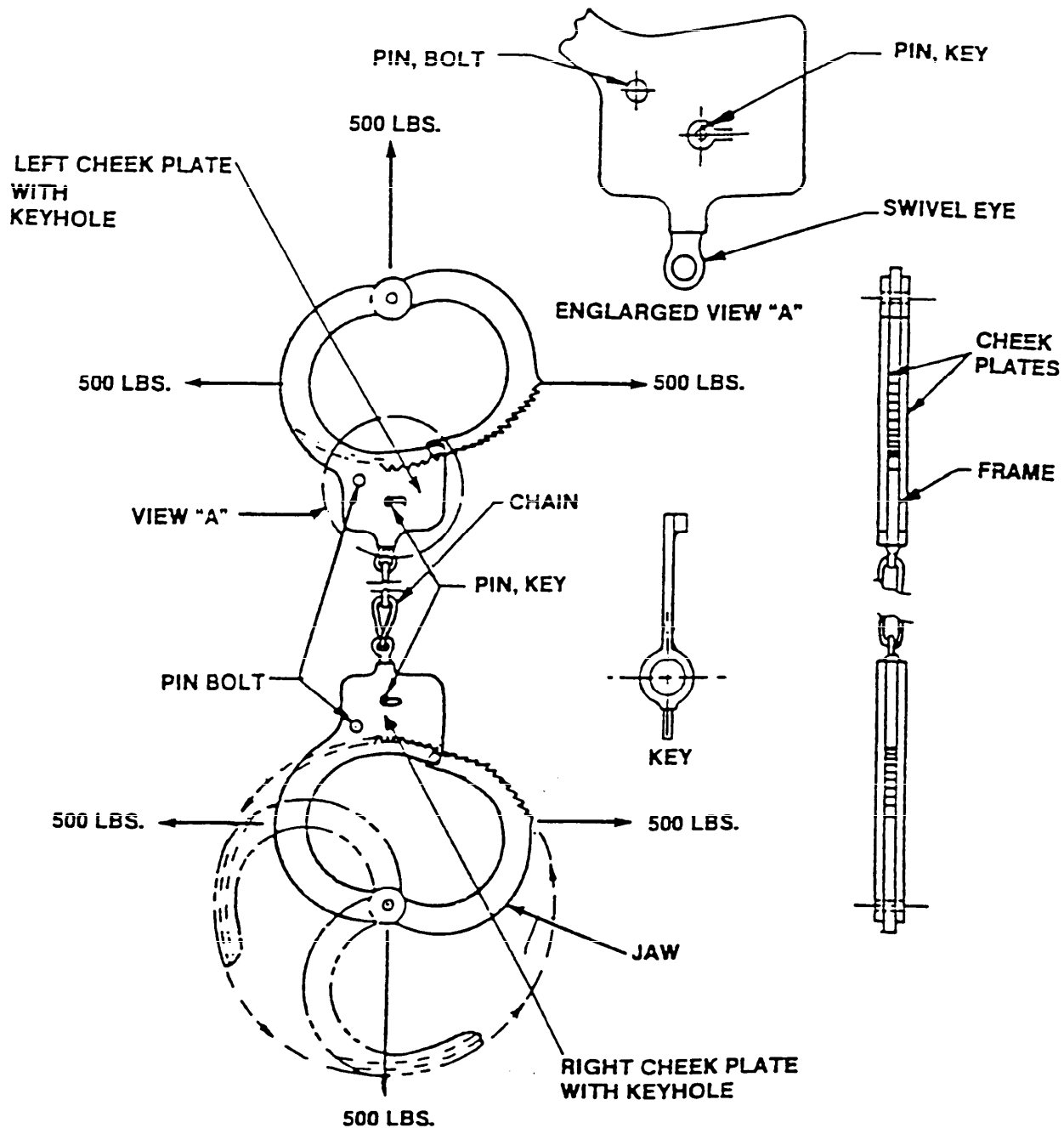


Figure 1. Handcuffs and Leg Irons