INCH-POUND

A-A-52464
April 28, 1993
SUPERSEDING
(see 5.4)

COMMERCIAL ITEM DESCRIPTION

COUPLER, DRAWBAR, RING: LIGHT DUTY, 60,000 LB GVW; OFFSET (TAPER SHANK), 60,000 LB GVW; AND HEAVY DUTY 120,000 LB GVW

The General Services Administration has authorized the use of this commercial item description (CID) as a replacement for MS51337F, MS51338F, and MS51339H which are canceled.

1.0 Abstract. This CID covers coupler, drawbar, rings (referenced herein as drawbar) which are used on trailers and equipment design for over the road towing within the stated capacities.

1.1 Classification. Drawbars covered by this CID are listed by type and gross vehicle weight (GVW), as follows:

Type I - Heavy Duty, 120,000 lb GVW
Type II - Light Duty, 60,000 lb GVW
Type III - Offset (Taper Shank), 60,000 lb GVW

2.0 Salient characteristics.

2.1 Material. Drawbars shall be made from steel forging material conforming to UNS G41400 or G43400. The use of recovered material made in compliance with regulatory requirements is acceptable providing that all requirements of this CID are met (see 5.7).

2.2 Heat treatment. The drawbars shall be quenched and tempered to Rockwell HRC 28-32. The area marked A in figures shall have a hardness range of Rockwell HRC 48-52 and a depth of hardness .062 to .18.

Beneficial comments, recommendations, additions, deletions clarifications, etc. and any other data which may improve this document should be sent by letter to: U.S. Army Tank-Automotive Command, ATTN: AMSTA-GDS, Warren, MI 48397-5000.

AMSC N/A FSC 2540

2.3 Design. The design of the drawbar shall be as specified in the figure for the applicable type required (see 1.1).

2.4 Painting. The painting procedure for the drawbar shall be as follows:

a. Clean and treated per TT-C-490, type I or III.
b. Prime per MIL-P-53030 or MIL-P-53022, dry film thickness 0.8 - 1.5 mils.
c. Topcoat color green 383 per MIL-C-46168 or MIL-C-53039, dry film thickness 1.8 mils minimum.

2.5 Identification and marking. Identification and marking of the drawbars, as a minimum, shall include the part identifying number (PIN) (see 5.3 and figures), and manufacturer's CAGE code (or equivalent identification).

2.6 Workmanship. Workmanship shall be such as to insure a product free of burrs, sharp edges, loose scale, laps, or cold shuts.

3.0 Quality assurance provisions.

3.1 Responsibility for inspection. The contractor is responsible for the performance of all inspections (examinations and tests).

3.2 Contractor certification. The contractor shall certify and maintain substantiating evidence that the product offered meets the salient characteristics of this commercial item description and that the product conforms to the producer's own drawings, specifications, standards, and quality assurance practices. Items with known defects shall not be submitted for Government acceptance. The Government reserves the right to require proof of such conformance prior to the first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

4.0 Preservation, packaging, packing, labeling, and marking. Preservation, packaging, packing, labeling, and marking for the desired level shall be as specified in the contract (see 5.2).

5.0 Notes.

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

5.1 Addresses for obtaining copies of referenced documents.

5.1.1 Government specifications. Copies of TT-C-490 "Cleaning Methods for Ferrous Surfaces and Pretreatments for Organic Coatings"; MIL-C-46168 "Coating, Aliphatic Polyurethane, Chemical Agent Resistant"; MIL-P-53022 "Primer Epoxy Coating, Corrosion Inhibiting, Lead and Chromate Free"; MIL-P-53030 "Primer Coating, Epoxy, Water Reducible, Lead and Chromate Free"; and MIL-C-53039 "Coating, Aliphatic Polyurethane, Single Component, Chemical Agent Resistant" are available from the Navy Publications and Printing Service Office, Standardization Document Order Desk, Bldg. 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

5.1.2 Non-Government publications. Copies of Metals & Alloys in the Unified Numbering System (UNS), are available from the Society of Automotive Engineers, Inc. (SAE), 400 Commonwealth Drive, Warrendale, PA 15096.

5.2 Ordering data. Acquisition documents must specify the following:

a. Title, number, and date of this CID.
b. Type of drawbar required (see 1.1).
c. PIN number (see 2.5) and quantity required.
d. Selection of applicable level and packaging requirements (see 4).
e. Issue of the DODISS to be cited in the solicitation and the specific issue of individual documents referenced in 5.1.

5.3 Part or identifying number (PIN). The PINs to be used for drawbars acquired to this CID are created as follows:

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- 1 = Type I, 2 = Type II, 3 = Type III
- CID number.
- Designates a CID.

5.4 Supersession and cross reference. This CID supersedes MS51337F, dated 22 October 1985, MS51338F, dated 22 October 1985, and MS51339H, dated 25 October 1984 which are cross referenced in the tables.

5.5 Metric product. Drawbars that are to metric dimensions will be considered on the following basis:

a. 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 ASTM E380 and all other requirements of this CID are met.

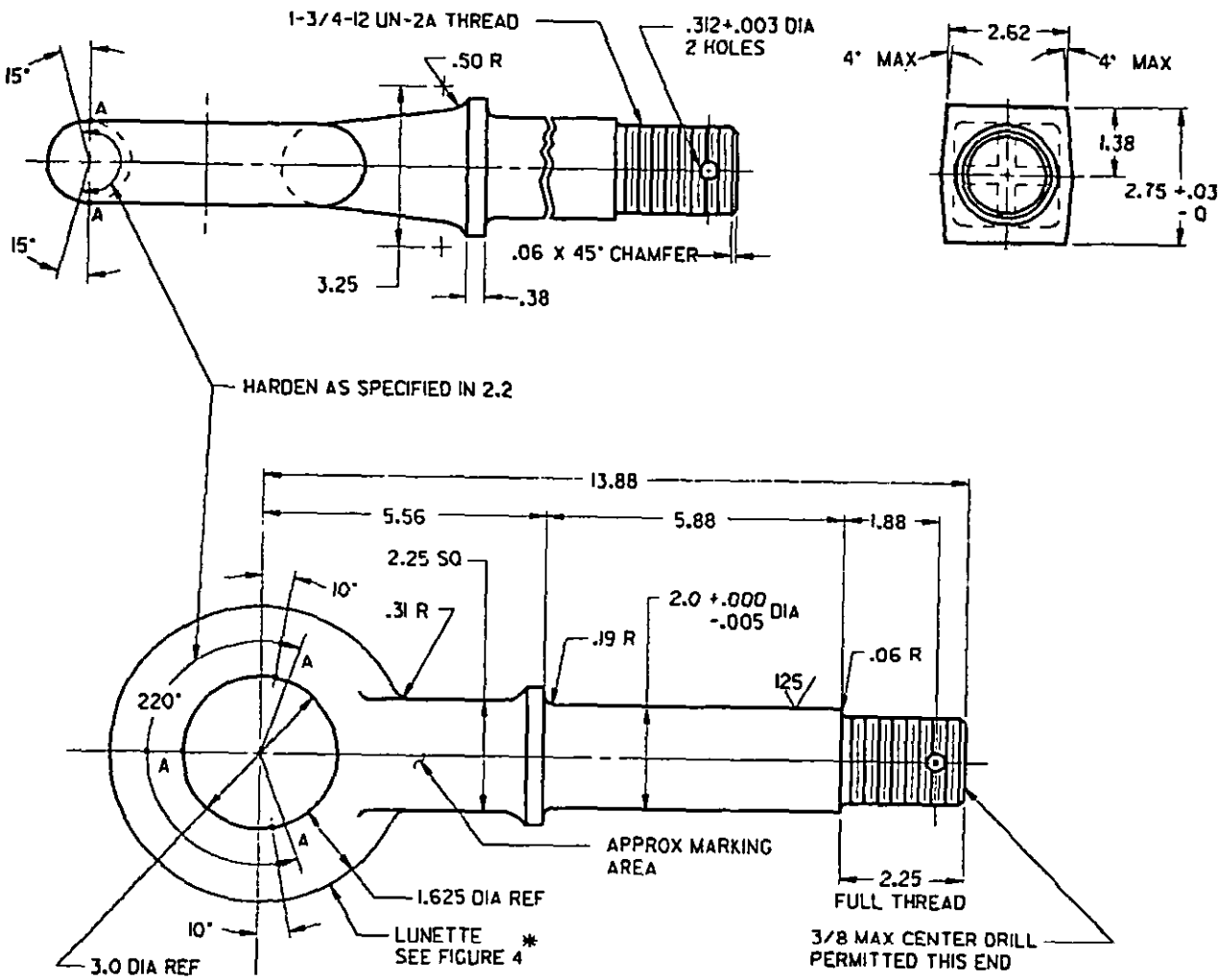
b. If a product is manufactured to metric dimensions and those dimensions exceed the tolerances specified in the inch-pound units, a request should be made to the contracting officer to determine if the product is acceptable.

c. The contracting officer has the option of accepting or rejecting the product.

5.6 Lunette. The lunette design covered in figure 4 is an excerpt from MS51336 which covers the international agreement for the lunettes in this CID.

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

5.8 International interest. Certain provisions of this CID (figures 1, 2, 3, and 4) are the subject of international standardization agreement (ASCC AIR STD 11/8, STANAG 4101, and QSTAG 264). When amendment, revision, or cancellation of this specification is proposed that will modify the international agreement concerned, the preparing activity will take appropriate action through international standardization channels, including departmental standardization offices, to change the agreement or make other appropriate accommodations.

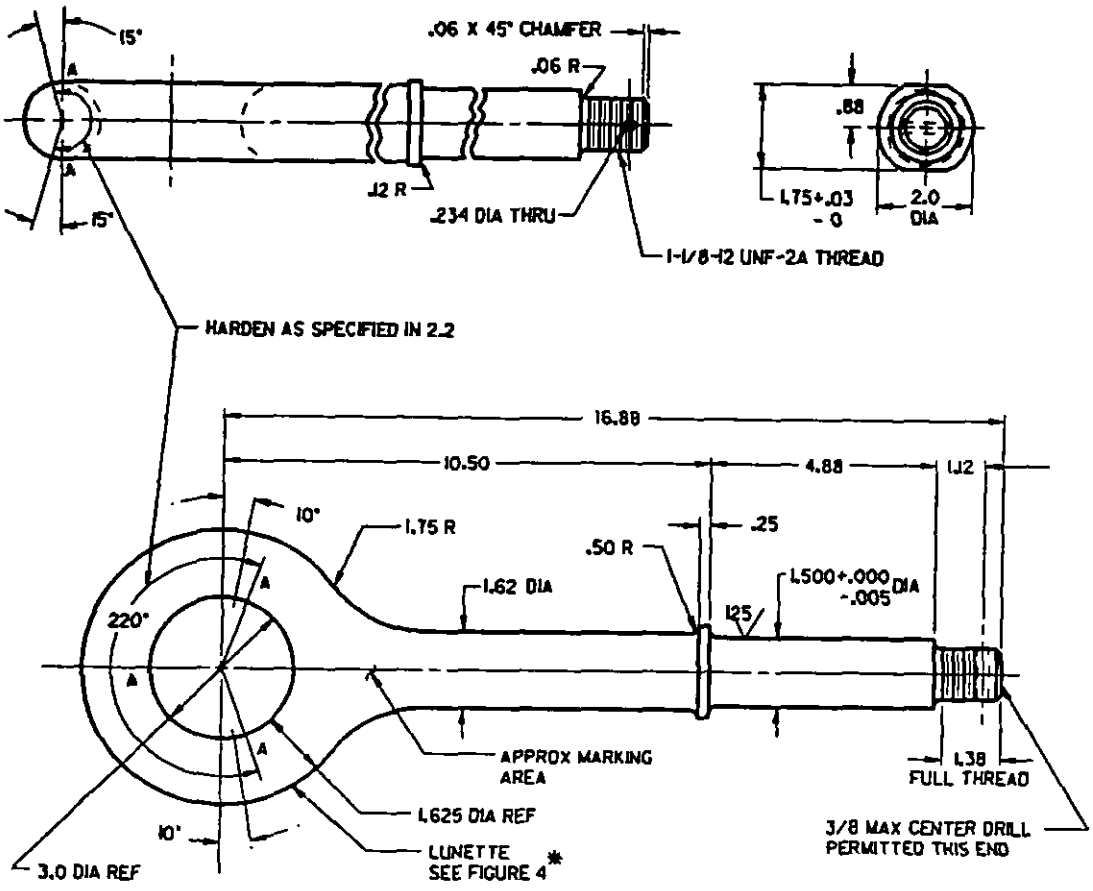


PIN no.	Former MS part no.
A52464-1	MS51337-1

NOTE:

1. Unless otherwise specified the dimensions are in inches and the tolerances are ± .031 and 5° on angular dimensions. DO NOT SCALE.
2. An asterisk (*) is used to show international interest.
3. Figure 4 covers design of the lunette.
4. Surface hardness shall be checked at locations marked A (6 places).

FIGURE 1. Type I, drawbar 120,000 lb GVW.

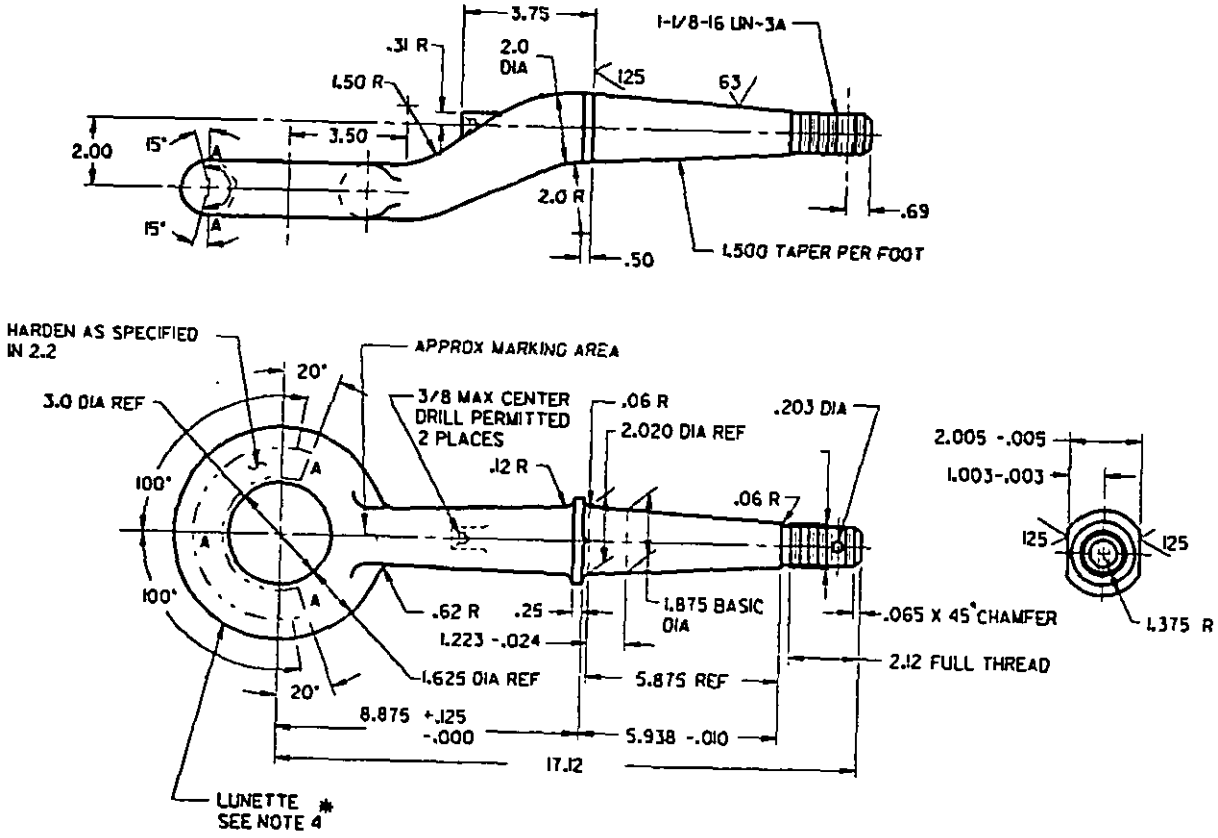


PIN no.	Former MS part no.
A52464-2	MS51338-1

NOTE:

1. Unless otherwise specified the dimensions are in inches and the tolerances are ± .031 and 5° on angular dimensions. DO NOT SCALE.
2. An asterisk (*) is used to show international interest.
3. Figure 4 covers design of the lunette.
4. Surface hardness shall be checked at locations marked A (6 places).

FIGURE 2. Type II, drawbar 60,000 lb GVW.

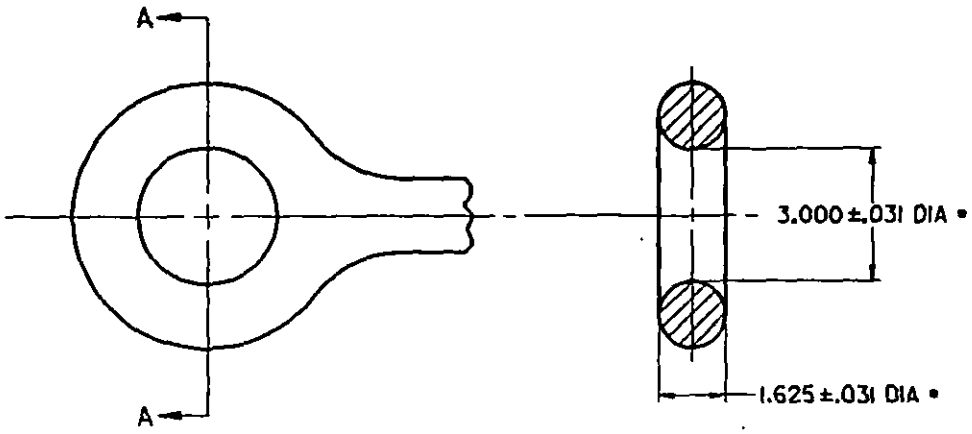


PIN no.	Former MS part no.
A52464-3	MS51339-3

NOTE:

1. Unless otherwise specified the dimensions are in inches and the tolerances are ± .031 and 5° on angular dimensions. DO NOT SCALE.
2. An asterisk (*) is used to show international interest.
3. Figure 4 covers design of the lunette.
4. Surface hardness shall be checked at locations marked A (6 places).

FIGURE 3. Type III, drawbar 60,000 lb GVW.



SECTION A-A

NOTE:

1. Unless otherwise specified the dimensions are in inches. DO NOT SCALE.

2. An asterisk (*) is used to show international interest.

FIGURE 4. Lunette - coupler, drawbar, ring.

MILITARY INTERESTS:

Custodians
Army - AT
Navy - YD
Air Force - 99

Review Activities
Air Force - 84
DLA - CS

User Activities
Army - ME
Navy - MC

CIVIL AGENCY COORDINATING ACTIVITY:
GSA - FSS

PREPARING ACTIVITY:
Army - AT

(Project 2540-0395)