

[INCH-POUND]
A-A-52464B
September 7, 1999
SUPERSEDING
A-A-52464A
November 3, 1998

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the use of this commercial item description (CID) for all federal agencies as a replacement for A-A-52464, which is superseded, and for MS51336D, which is canceled.

1. **SCOPE.** This CID covers coupler, drawbar, rings (referenced herein as drawbar) which are used on trailers and equipment designed for over-the-road towing within the stated capacities.

2. **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

3. **SALIENT CHARACTERISTICS.**

3.1 **Material.** Drawbars shall be made from steel forging material conforming to UNS G41400 or G43400 (see 7.5.1). The use of recovered materials made in compliance with regulatory requirements is acceptable providing that all requirements of this CID are met (also see 4.1 and 4.2).

3.2 **Heat treatment.** The drawbars shall be quenched and tempered to Rockwell HRC 28-32. The area marked A in figures 1 through 3 shall have a hardness range of Rockwell HRC 48-52 and a depth of hardness 0.062 to 0.18 inches.

Beneficial comments, recommendations, additions, deletions, clarifications, and any other data that may improve this document should be sent by letter to: Defense Supply Center, Columbus, Attn: DSCC-VAI, 3990 E. Broad Street, Columbus, OH 43213-5000.
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3.3 Design. The design of the drawbar shall be as specified in figure 1, 2, or 3 for the applicable type required (see 2).

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

- a. Clean and treat per TT-C-490 (see 7.5.2), type I or III.
- b. Prime per MIL-P-53030 or MIL-P-53022 (see 7.5.2); dry film thickness 0.8 - 1.5 mils.
- c. Topcoat color green 383 per MIL-C-46168 or MIL-C-53039 (see 7.5.2); dry film thickness 1.8 mils minimum.

3.5 Identification and marking. Identification and marking of the drawbars, as a minimum, shall include the part or identifying number (PIN) (see 7.2 and figures 1 through 3), and the manufacturer's CAGE code (or equivalent identification).

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

4. REGULATORY REQUIREMENTS.

4.1 Recovered materials. The use of recovered materials is encouraged to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR) (see 7.5.3).

4.2 Toxic chemicals, hazardous substances and ozone depleting chemicals (ODCs). The use of toxic chemicals, hazardous substances or ODCs shall be avoided, whenever feasible.

5. QUALITY ASSURANCE PROVISIONS.

5.1 Product conformance. The products provided shall meet the salient characteristics of this CID; conform to the producer's own drawings, specifications, standards, and quality assurance practices; and be the same product offered for sale in the commercial market. The government reserves the right to require proof of such conformance.

6. PACKAGING.

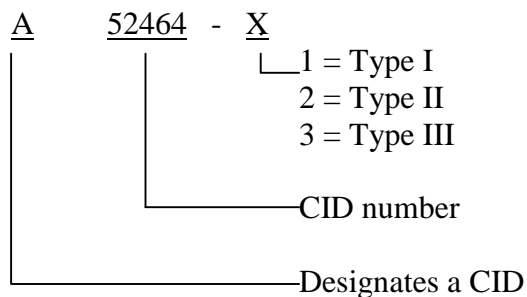
6.1 Preservation, packing, packaging, and marking. Preservation, packing, packaging, and marking shall be as specified in the contract or order (see 7.3).

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7. NOTES.

7.1 International interest. Certain provisions of this CID (see figures 1, 2, 3, and 4) are the subject of international standardization agreements (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.

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



7.3 Ordering data. Procurement documents should specify the following:

- a. Number, title and date of this CID.
- b. Type of drawbar required (see 2).
- c. Preservation, packing, packaging, and marking requirements (see 6.1).
- d. PIN (see 7.2) and quantity required.

7.4 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 and all other requirements of the 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.

7.5 Source of documents.

7.5.1 Copies of “Metals and Alloys in the Unified Numbering System (UNS)” are available from the Society of Automotive Engineers, Inc. (SAE), 400 Commonwealth Drive, Warrendale, PA 15096-0001.

7.5.2 Copies of the referenced military and federal specifications and standards may be obtained from the Defense Automated Printing Service, DODSSP, Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.

- 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
- MIL-C-53039 - Coating, Aliphatic Polyurethane, Single Component, Chemical Agent Resistant
- TT-C-490 - Cleaning Methods for Ferrous Surfaces and Pretreatments for Organic Coatings

7.5.3 The Federal Acquisition Regulation (FAR) may be obtained from the Superintendent of Documents, US Government Printing Office, Washington, D.C. 20402.

Custodians:

Army - AT
Navy - MC
Air Force - 99

Preparing activity:

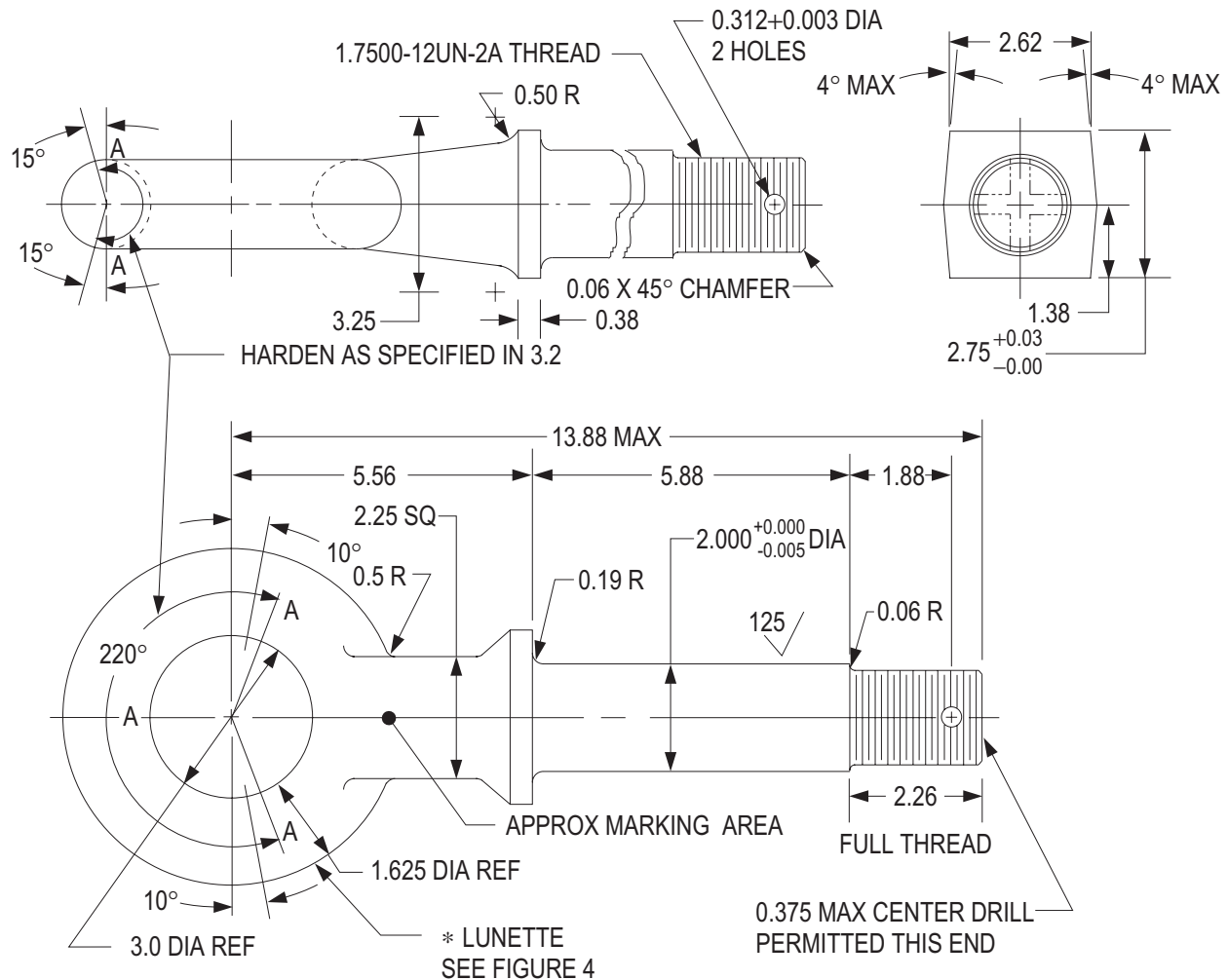
DLA - CC

(Project 2540-0460)

Review activities:

Army - CR4
Air Force - 84

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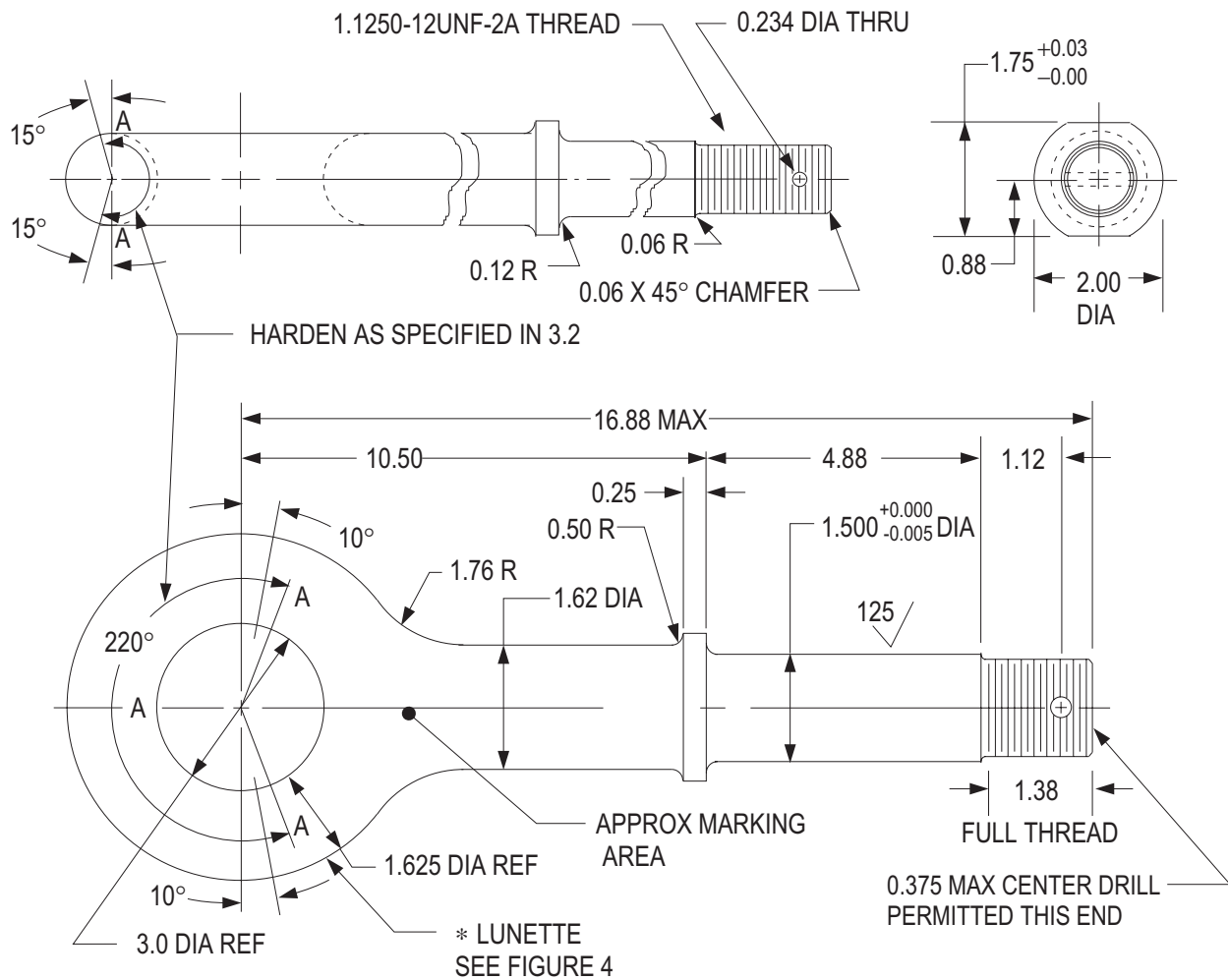


NOTES:

1. Dimensions are in inches. Unless otherwise specified, tolerances are ± 0.031 inches and 5° on angular dimensions. DO NOT SCALE.
2. An asterisk (*) is used to show an area of international interest (see 7.1).
3. Surface hardness shall be checked at locations marked A (top and bottom as shown on side view at locations marked on top view).

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

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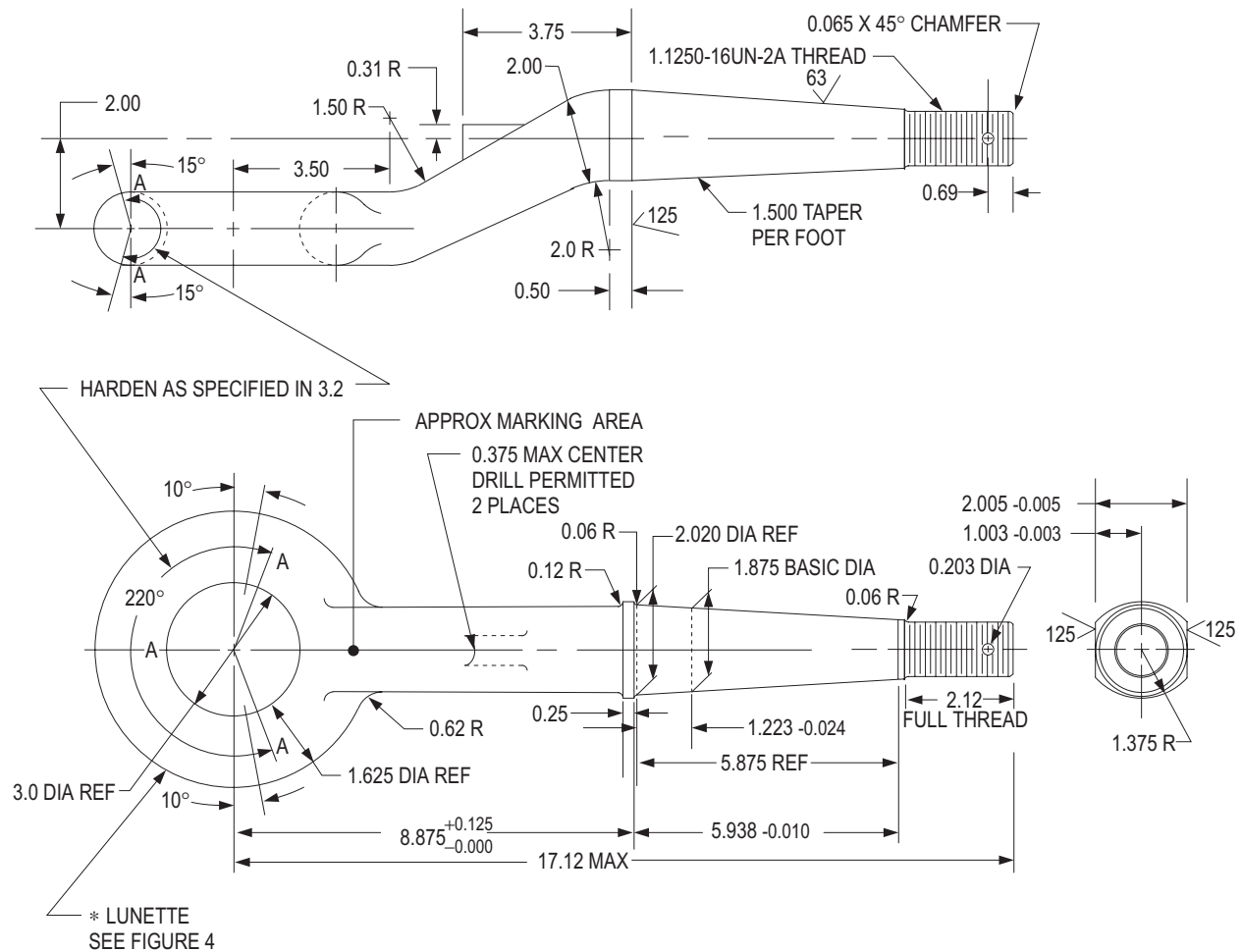


NOTES:

1. Dimensions are in inches. Unless otherwise specified, tolerances are ± 0.031 inches and 5° on angular dimensions. DO NOT SCALE.
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FIGURE 2. Type II drawbar, light duty, 60,000 lb GVW

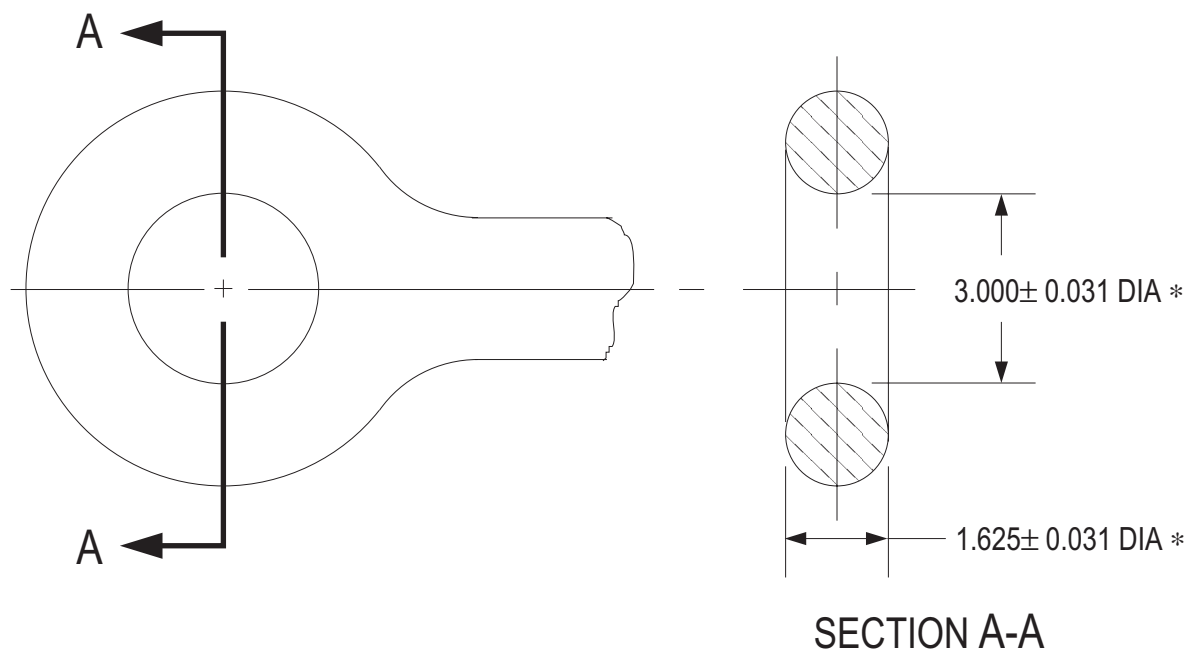
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NOTES:

1. Dimensions are in inches. Unless otherwise specified, tolerances are ± 0.031 inches and 5° on angular dimensions. DO NOT SCALE.
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3. Surface hardness shall be checked at locations marked A (top and bottom as shown on side view at locations marked on top view).

FIGURE 3. Type III drawbar, offset (taper shank), 60,000 lb GVW



NOTES:

1. Dimensions are in inches. DO NOT SCALE.
2. An asterisk (*) is used to show an area of international interest (see 7.1).

FIGURE 4. Lunette - coupler, drawbar, ring.