

[INCH-POUND]
A-A-52550
July 30, 1996
SUPERSEDING
(see 7.5)

COMMERCIAL ITEM DESCRIPTION

PINTLE ASSEMBLY, TOWING, MANUAL RELEASE, 18 000, 40 000 AND 100 000 LBS CAPACITY

The General Services Administration has authorized the use of this Commercial Item Description (CID) for all federal agencies.

1. **SCOPE.** This CID covers manual release pintle assemblies that are used on trucks and equipment designed for over the road towing within the specified capacities.
2. **CLASSIFICATION.** Pintle assemblies covered by this CID are listed by type and maximum gross trailer weight (GTW) as follows:

Type I - 18 000 pound (lb) maximum (max.) GTW
Class 1 - Swivel
Class 2 - Rigid
Type II - 40 000 lb max. GTW
Type III - 100 000 lb max. GTW

3. SALIENT CHARACTERISTICS

3.1. Materials. Unless otherwise specified herein, materials shall be in accordance with the manufacturer's materials specifications for pintle assemblies. The use of recovered materials made in compliance with regulatory requirements is acceptable providing that all requirements of this CID are met (see 4.1).

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 and Armaments Command, ATTN: AMSTA-TR-E/BLUE, Warren, MI 48397-5000.

AMSC N/A

FSC 2540

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

A-A-52550

3.2 Design and construction. Unless otherwise specified herein, the design and construction of the pintle assemblies shall be in accordance with figures 1 through 4 for the applicable type required.

3.2.1 Secondary locking mechanism. The secondary locking mechanism shall consist of either a cotter pin with an attached chain or an equivalent locking device such as a snapper pin or a spring-loaded pin (see 7.4). The locking device shall not require the use of any special tools to open or close it.

3.2.2 Lubrication fitting. Lubrication fitting shall be in accordance with SAE J534 and shall have 0.25-28 UNS-2A taper threads. Fitting shall be made of steel and shall be zinc-plated in accordance with ASTM F1135, grade 3 (see figures 3 and 4).

3.3 Painting. Cleaning, surface treatment, and painting shall be as specified in the contract (see 7.2).

3.4 Identification and marking. Identification and marking of the pintle assemblies shall include, as a minimum, the part identification number (PIN), maximum GTW, and the manufacturer's CAGE code (or equivalent identification) (see 7.3).

4. REGULATORY REQUIREMENTS

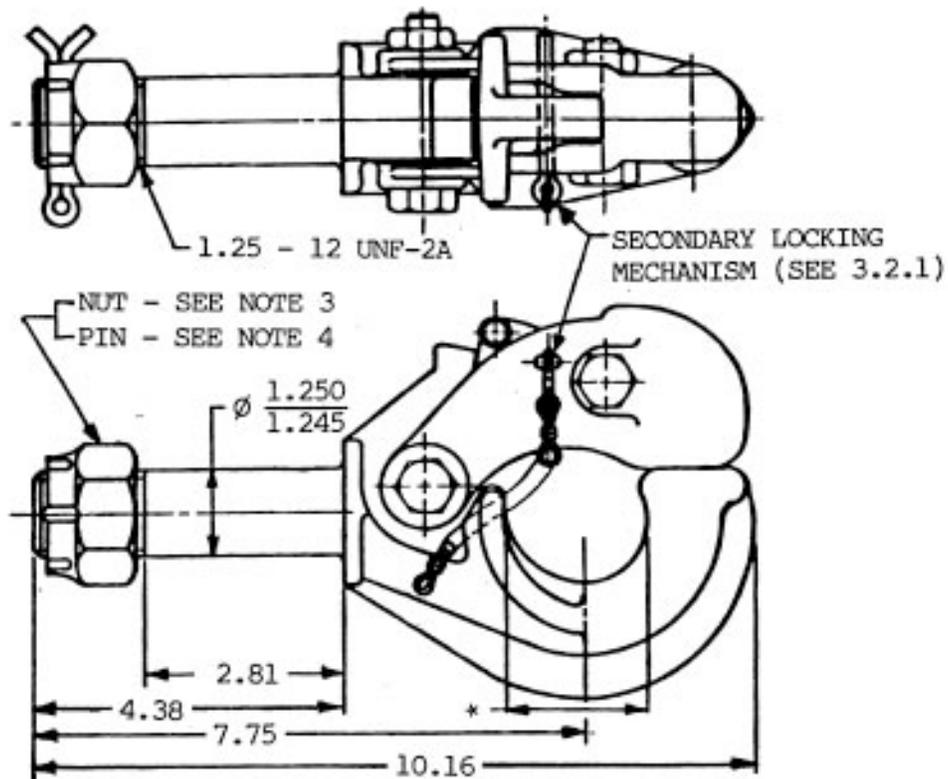
4.1 Recovered materials. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

5. QUALITY ASSURANCE PROVISIONS

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

5.2 Product conformance. The products provided shall meet the salient characteristics of this commercial item description, 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.

A-A-52550



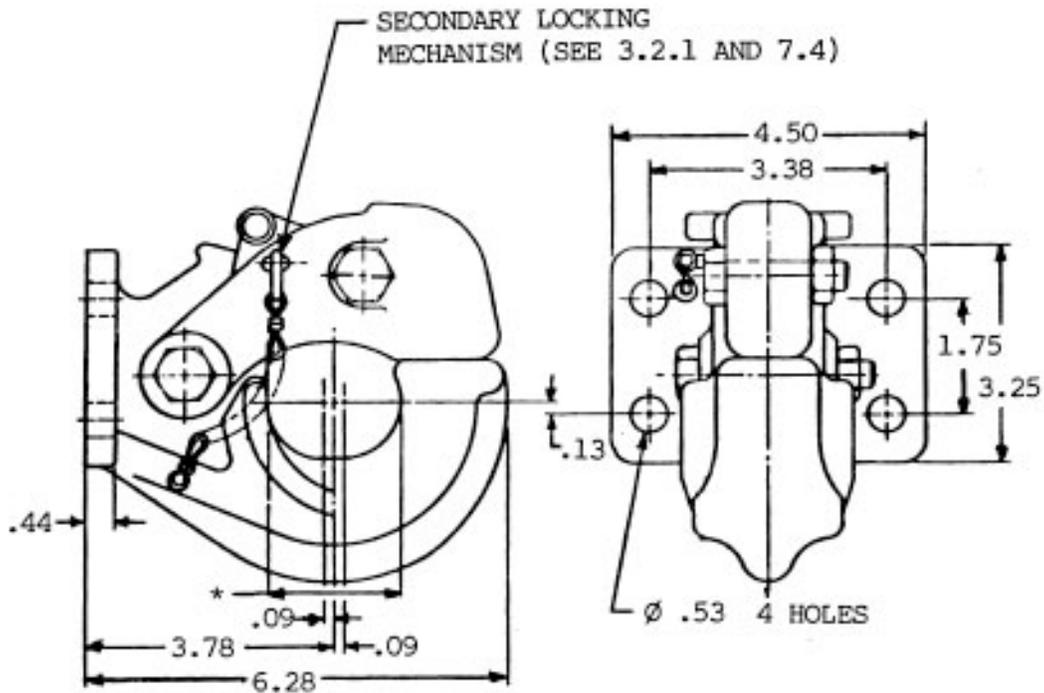
PIN	Former MS Part No.
AA52550-1	MS51335-1

NOTES:

1. Dimensions are in inches and are shown for engineering reference only.
2. Applicable provision of ASCC Air Std 11/8, QSTAG-264, and STANAG 4101 (see 7.7) is marked *. This dimension shall be of such size that it will accept a 3 inch (in.) x 1.66 in. lunette.
3. Hex nut, slotted, 1.25-12 UNF-2B, carbon steel, grade C, zinc-plated in accordance with ASTM F1135, grade 3.
4. Cotter pin, carbon steel, grade C, zinc-plated in accordance with ASTM F1135, grade 3, 0.25 in., 3 in. long.

FIGURE 1. Type I, class 1, pintle assembly.

A-A-52550



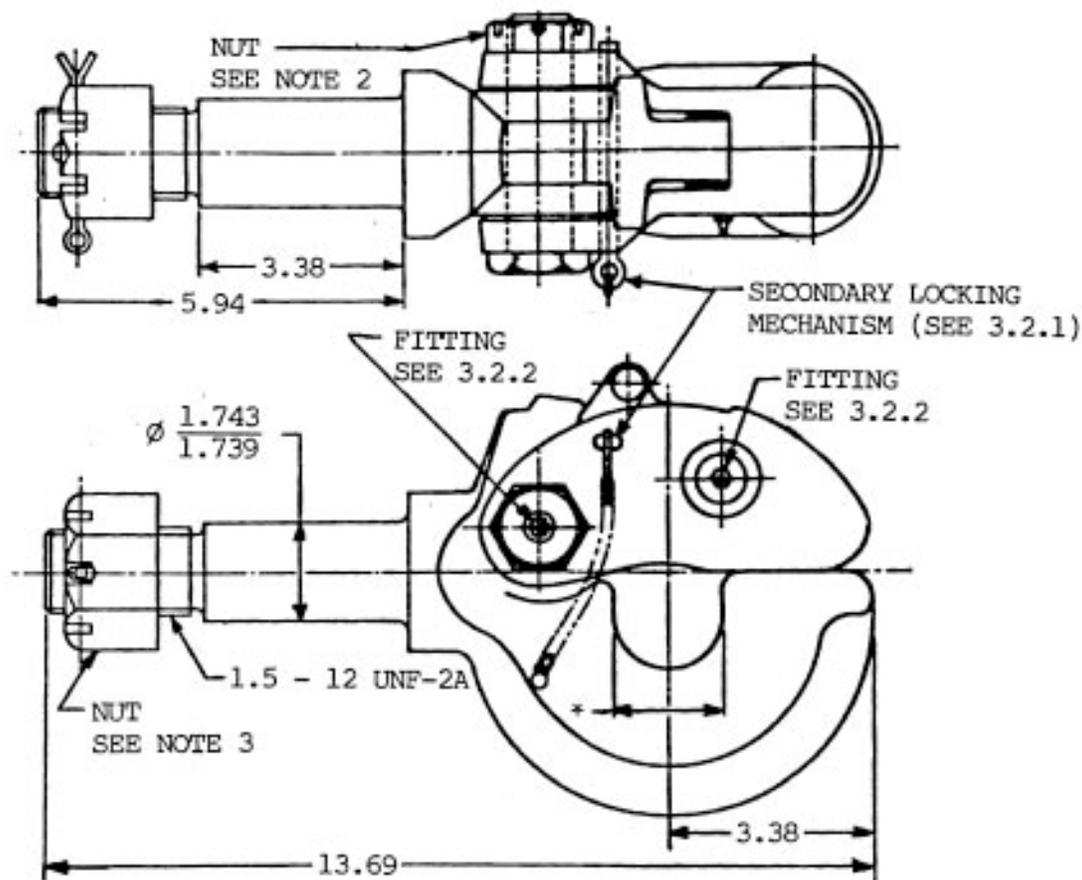
PIN	Former MS Part No.
AA52550-4	MS51335-2

NOTES:

1. Dimensions are in inches and are shown for engineering reference only.
2. Applicable provision of ASCC Air Std 11/8, QSTAG-264, and STANAG 4101 (see 7.7) is marked *. This dimension shall be of such size that it will accept a 3 in. x 1.66 in. lunette.

FIGURE 2. Type I, class 2, pintle assembly.

A-A-52550



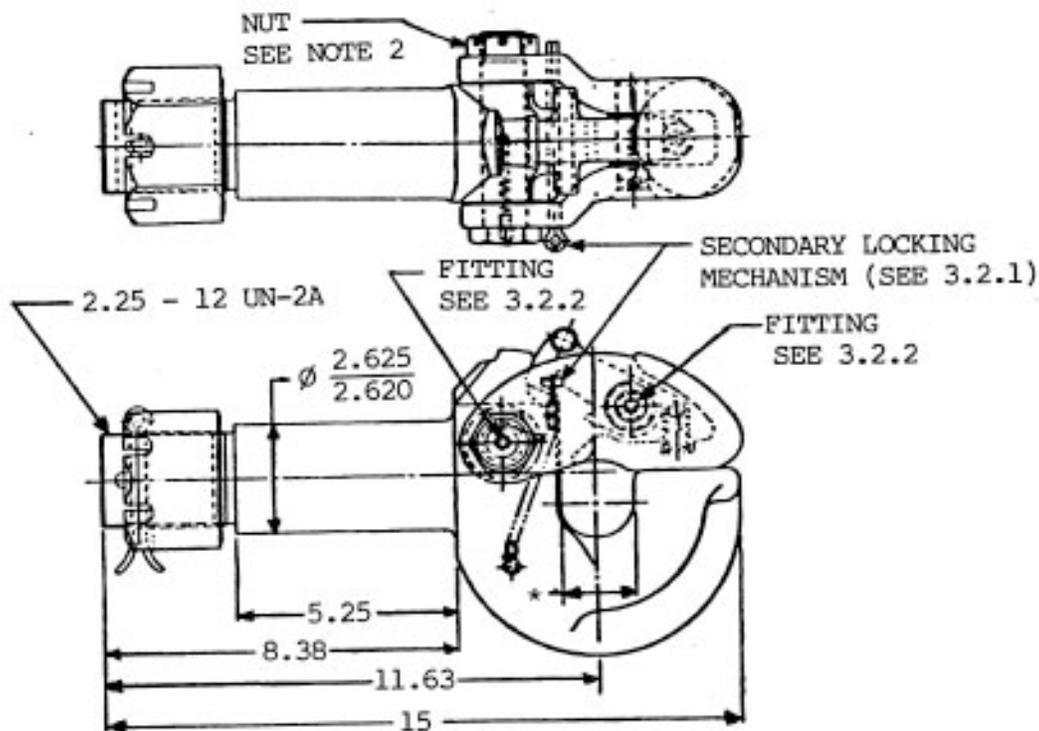
PIN	Former MS Part No.
AA52550-2	MS51118-1

NOTES:

1. Dimensions shown are in inches and are for engineering reference only.
2. Plain hex nut, slotted, 1-14 UNS-2B, steel; nut height - 0.48 in. minimum (min.), 0.52 in. max.; width across flats - 1.42 in. min., 1.44 in. max.; hardness - Rockwell B 85.0 min., 100.0 max. Nut shall be zinc-plated in accordance with ASTM F1135, grade 3.
3. Slotted hex nut, 1.5-12 UNF-2B, carbon steel, grade C, zinc-plated in accordance with ASTM F1135, grade 3.
4. Applicable provision of ASCC Air Std 11/8, QSTAG-264, and STANAG 4101 (see 7.7) is marked *. This dimension shall be of such size that it will accept a 3 in. x 1.66 in. lunette.

FIGURE 3. Type II pintle assembly.

A-A-52550



PIN	Former MS Part No.
AA52550-3	MS51117-1

NOTES:

1. Dimensions shown are in inches and are for engineering reference only.
2. Plain hex nut, slotted, 1-14 UNS-2B, steel; nut height - 0.48 in. min., 0.52 in. max.; width across flats - 1.42 in. min., 1.44 in. max.; hardness - Rockwell B 85.0 min., 100.0 max. Nut shall be zinc-plated in accordance with ASTM F1135, grade 3.
3. Applicable provision of ASCC Air Std 11/8, QSTAG-264, and STANAG 4101 (see 7.7) is marked *. This dimension shall be of such size that it will accept a 3 in. x 1.66 in. lunette.

FIGURE 4. Type III pintle assembly.

6. PACKAGING. Preservation, packing, and marking shall be as specified in the contract or order (see 7.2).

7. NOTES

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

7.1. Addresses for obtaining copies of referenced documents.

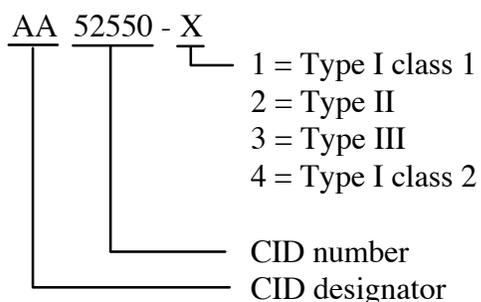
7.1.1 Government documents. Copies of the Code of Federal Regulations (CFR) are available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

7.1.2 Non-Government documents. Copies of ASTM F1135 “Standard Specification for Cadmium or Zinc Chromate Organic Corrosion Protective Coating for Fasteners” are available from the American Society for Testing and Materials (ASTM), 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Copies of SAE J534 “Lubrication Fittings” (DoD Adopted) are available from the Society of Automotive Engineers, Inc. (SAE), 400 Commonwealth Drive, Warrendale, PA 15096-0001.

7.2 Ordering data. Acquisition documents must specify the following:

- a. Title, number, and date of this CID.
- b. Issue of Department of Defense Index of Specifications and Standards (DoDISS) to be cited in the solicitation, and if required, the specific issue of individual documents referenced.
- c. Type, PIN, and quantity of pintle assembly required.
- d. Cleaning, surface treatment, type of paint, and color required.
- e. Selection of applicable level and packaging requirements.

7.3 Part Identification Number (PIN). The PINs to be used for pintle assemblies acquired by this CID are created as follows:



7.4 Pintle assembly (type I, class 2). A pintle assembly which uses a spring-loaded pin or a snapper pin as a secondary locking mechanism is recommended for use as type I, class 2, pintle

A-A-52550

assembly described in this CID because of unlatching problems associated with cotter pin type locking devices encountered in the field.

7.5 Supersession. This CID supersedes MS51335F, dated 29 September 1981; MS51118F, dated 30 May 1972; and MS51117E, dated 21 August 1972.

7.6 Cross-reference. Pintle assemblies conforming to this CID are interchangeable/substitutable with pintle assemblies conforming to MS51335F, MS51118F, and MS51117E.

7.7 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, QSTAG 264, and STANAG 4101). When amendment, revision, or cancellation of this CID 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.

MILITARY INTERESTS:

Custodians:

Army - AT
Navy - YD1
Air Force - 99

Review Activities:

Army - AR
Navy - MC
Air Force - 84
DLA - CS

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FSS

Preparing Activity:

Army - AT

(Project 2540-0424)