METRIC
A-A-52505A
May 09, 2011
SUPERSEDING
A-A-52505
October 28, 1994

COMMERCIAL ITEM DESCRIPTION

RETAINER, BATTERY (METRIC)

The General Services Administration has authorized the use of this commercial item description (CID) for all federal agencies.

1. SCOPE. This CID covers battery retainers, used widely in automotive tactical vehicles to hold secure 2HN and 6TMF or 6TAGM batteries.

2. CLASSIFICATION. The battery retainers shall be classified as follows (see 7.3):

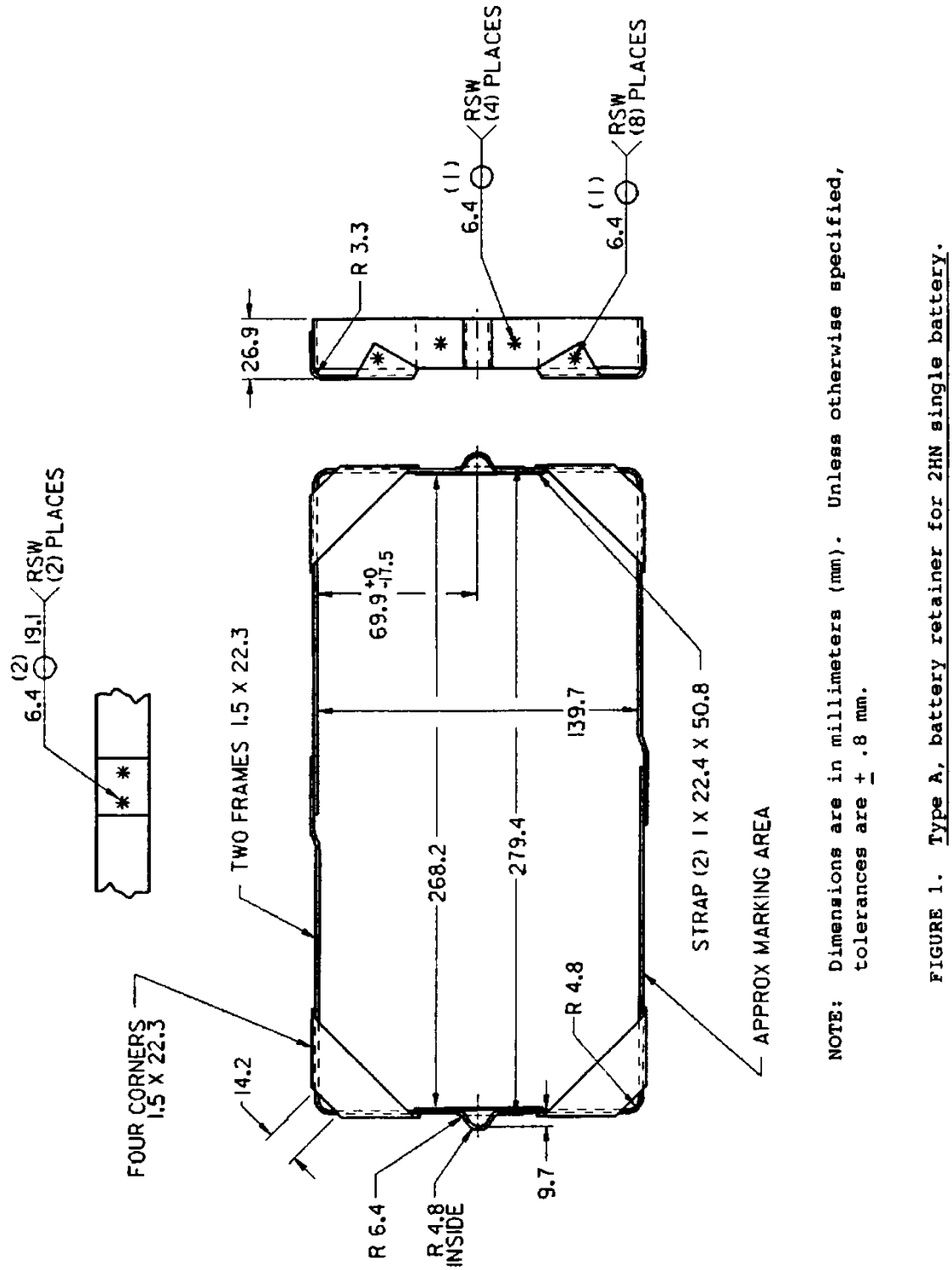
Type A - 2HN single battery
Type B - 2HN double battery
Type C - 6TMF or 6TAGM double battery

3. SALIENT CHARACTERISTICS

3.1 Material. The battery retainer shall be made of hot rolled commercial quality (HRCQ) carbon steel, pickled and oiled (PO) sheet or strip as per ASTM A1011/A1011M, or cold rolled commercial quality (CRCQ) sheet or cold rolled (CR) strip as per ASTM A1008/A1008M, 1009 to 1020, temper 2 to 5. The use of recovered material made in compliance with regulatory requirements is acceptable providing all requirements of this CID are met (see 4).

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data that may improve this document should be sent to DAMI_STANDARDIZATION@conus.army.mil or U.S. Army RDECOM, Tank Automotive Research, Development and Engineering Center, ATTN: RDTA-EN/STND/TRANS MS #268, 6501 E. 11 Mile Road, Warren, MI 48397-5000. Since contact information can change, you may want to verify the currency of this address information using the ASSIST Online database at https://assist.daps.dla.mil.

AMSC N/A FSC 6160



NOTE: Dimensions are in millimeters (mm). Unless otherwise specified, tolerances are ± .8 mm.

FIGURE 1. Type A, battery retainer for 2HN single battery.

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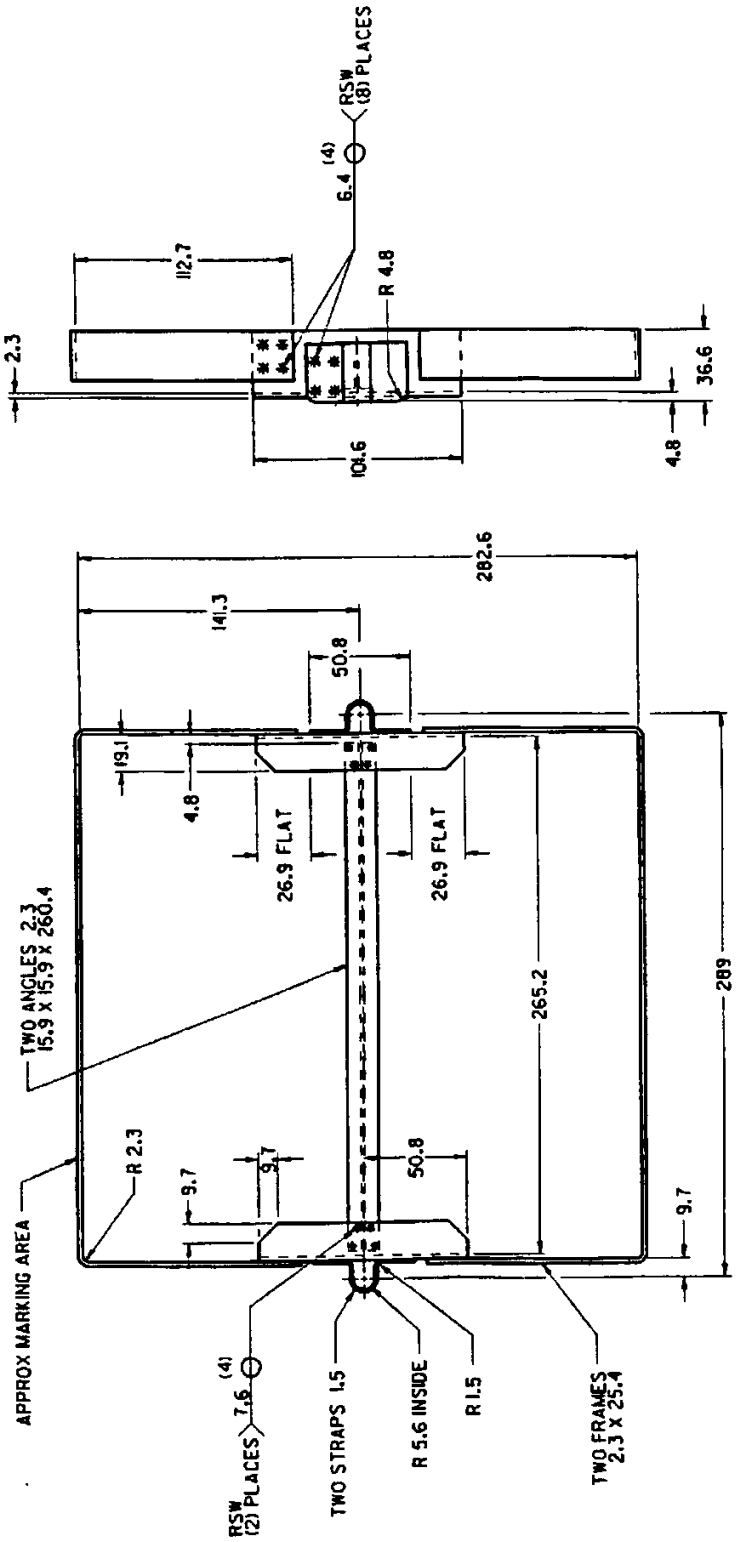

NOTE: Dimensions are in millimeters (mm). Unless otherwise specified, tolerances are + .8 mm.

FIGURE 2. Type B, battery retainer for 2HN double battery.

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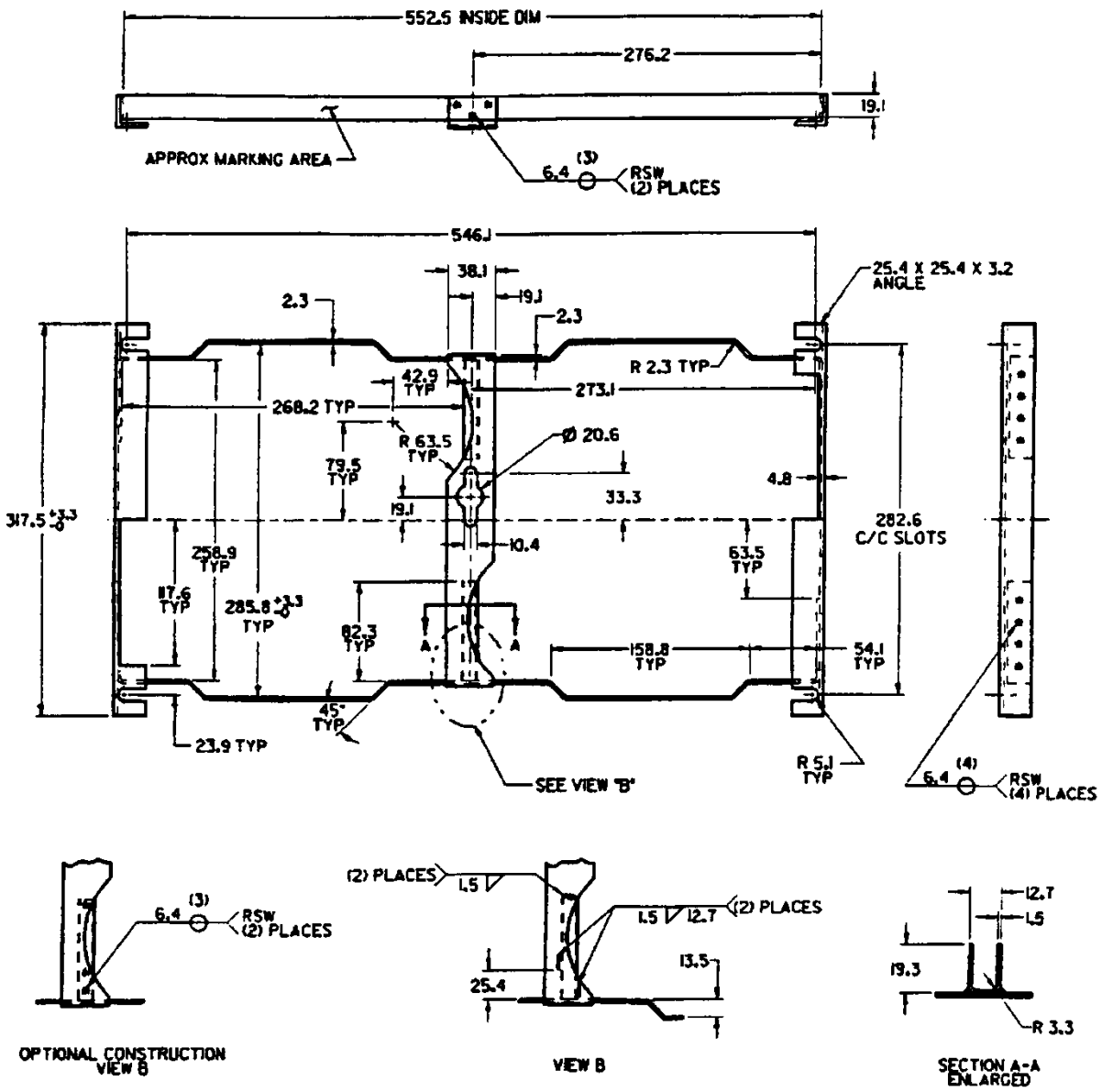


NOTE: Dimensions are in millimeters. Unless otherwise specified, tolerances are ±.8 mm.

FIGURE 3. Type C, battery retainer for 6TMF or 6TAGM double battery.

3.2 Design and construction. Unless otherwise specified in figures 1 thru 3, the design and construction of the battery retainers shall be in accordance with the manufacturer's specifications and drawings.

3.2.1 Welding. The welding of the battery retainer shall be appropriate for highly stressed joints per AWS D1.1.

3.2.2 Spotwelding. The maximum carbon content of the battery retainer spots to be welded shall not exceed 0.20 percent (%) in accordance with AWS C1.1. After welding the outer surface of spots shall be smooth and free of cracks, tip pickup, pits, and metal expulsion.

3.3 Finish.

3.3.1 Cleaning. The cleaning of the battery retainer shall be per the manufacturer's cleaning standard. The retainer parts shall be free of oil, grease, wax, dirt, acid, rust and should not show visible signs of corrosion products.

3.3.2 Galvanizing. The retainer assembly shall be hot-dip galvanized in accordance with ASTM A123/A123M, Thickness Grade 100, prior to plastisol coating.

3.3.3 Plastisol coating. The battery retainer shall be spray coated with plastisol, 0.25 mm thick. This coating shall be free from runs and sags and shall provide maximum resistance to corrosion, abrasion, and chemicals.

3.3.4 Rubber dip coating. Rubber dip coating with polychloroprene is optional, it shall be 0.25 mm thick and done as per M2BC505F17 of ASTM D2000.

3.4 Identification marking. Identification marking shall be permanent and legible and shall include, as a minimum, the part identification number (PIN) and the manufacturer's CAGE code and part number (see 7.2 and 7.3).

4. REGULATORY REQUIREMENTS. 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. PRODUCT CONFORMANCE PROVISIONS

5.1 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 marketplace. The government reserves the right to require proof of such conformance.

6. PACKAGING. Preservation, packaging, packing, labeling, and marking for the desired level shall be as specified in the contract (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 Source of socuments.

7.1.1 Federal acquisition regulation. Copies of the FAR are available from http://www.acquisition.gov/far/.

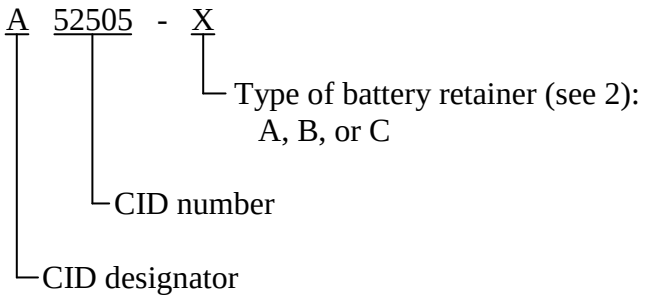
7.1.2 ASTM standards. Copies of ASTM A123/A123M "Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products", ASTM A1008/1008M "Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low Alloy with Improved Formability, Solution hardened, and Bake Hardenable", ASTM A1011/A1011M "Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength", and ASTM D2000 "Standard Classification System for Rubber Products in Automotive Applications" are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

7.1.3 AWS standards. Copies of AWS C1.1 "Resistance Welding Recommended Practices For", and AWS D1.1 "Structural Welding Code-Steel" are available from the American Welding Society, 550 N.W. Lejune Road, P.O. Box 351040, Miami, FL 33135 (see 7.2).

7.2 Ordering data. Acquisition documents must specify the following:

a. Title, number, and date of this CID.
b. If required, the specific issue of individual documents referenced (see 7.1.1, 7.1.2, and 7.1.3).
c. PIN and quantity required (see 3.4 and 7.3).
d. Selection of applicable level and packaging requirements (see 6).

7.3 Part or identification number (PIN). The PINs to be used for battery retainers acquired to this CID are created as follows (see 3.4 and 7.2):



7.4 Cross-reference data. Battery retainers conforming to this CID are substitutable/ interchangeable with battery retainers conforming to MS53046C, dated 20 July 1973. PIN numbers to former part numbers are as follows:

CID PIN	Former MS Part Number	Former Army Part Number	Battery Type Normally Used
A52505-A	MS53046-1	8754765	2HN (single)
A52505-B	MS53046-2	7415701	2HN (double)
A52505-C	MS53046-3	8345000 11639629	6TMF or 6TAGM (double)

7.5 Key words.

2HN
6TAGM
6TMF
Electrical

MILITARY INTERESTS:

Custodians:
Army - AT
Air Force - 99
Navy - MC

Review Activities:
Army – MI, CR4
Air Force - 84
DLA – CC

CIVIL AGENCY COORDINATING ACTIVITY:
GSA-FAS

Preparing Activity:
Army – AT

(Project 6160-2011-001)

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at https://assist.daps.dla.mil.