[METRIC]
A-A-52505
October 28, 1994
SUPERSEDING
MS53046C
20 July 1973

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 6TN batteries.

1.1 Classification. The battery retainers shall be classified as follows:

Type A - 2HN single battery
Type B - 2HN double battery
Type C - 6TN double battery.

2. SALIENT CHARACTERISTICS.

2.1 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 A569, or cold rolled commercial quality (CRCQ) sheet or cold rolled (CR) strip as per ASTM A366, 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 5.5)

2.2 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.

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

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.

FSC 6160

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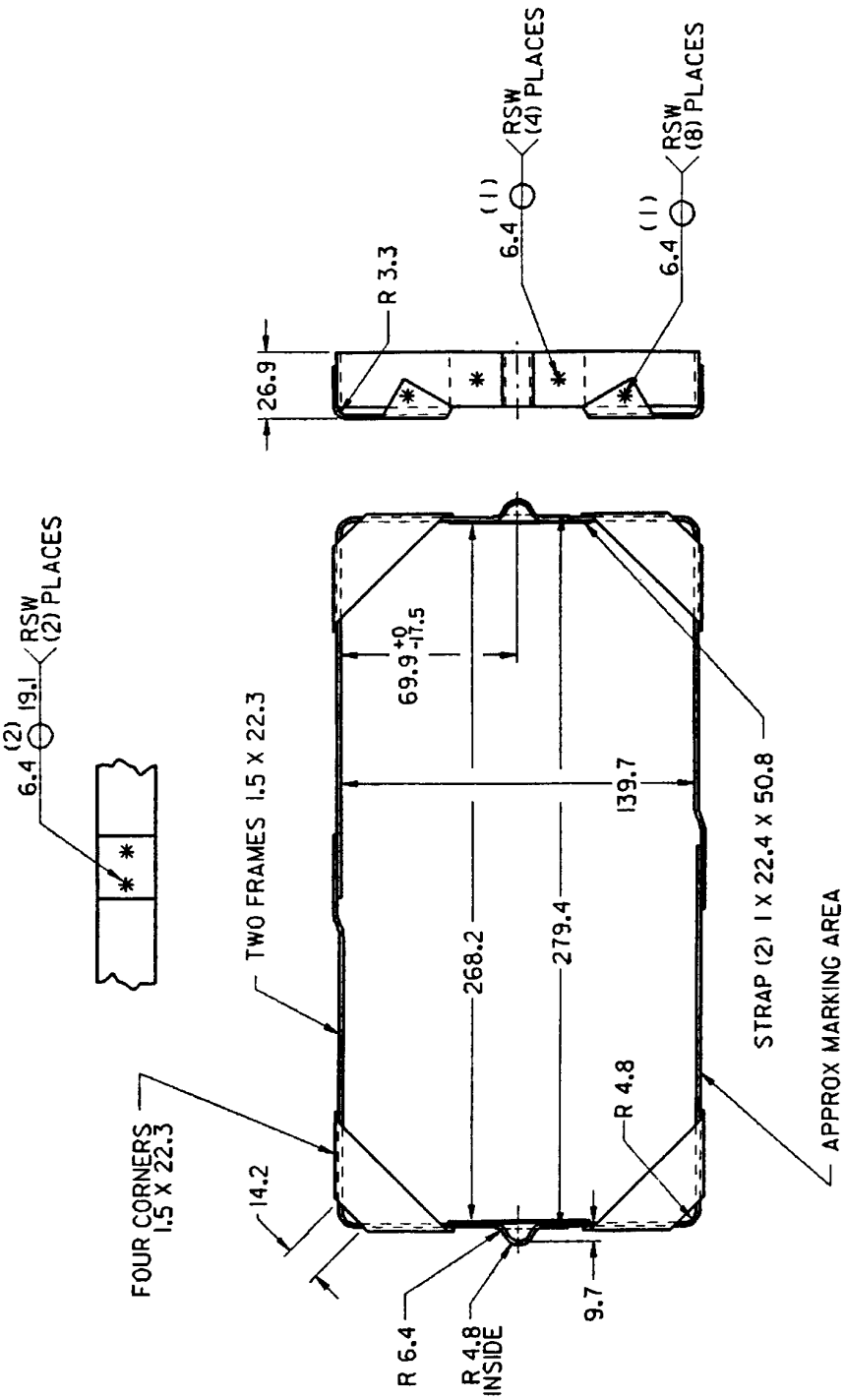
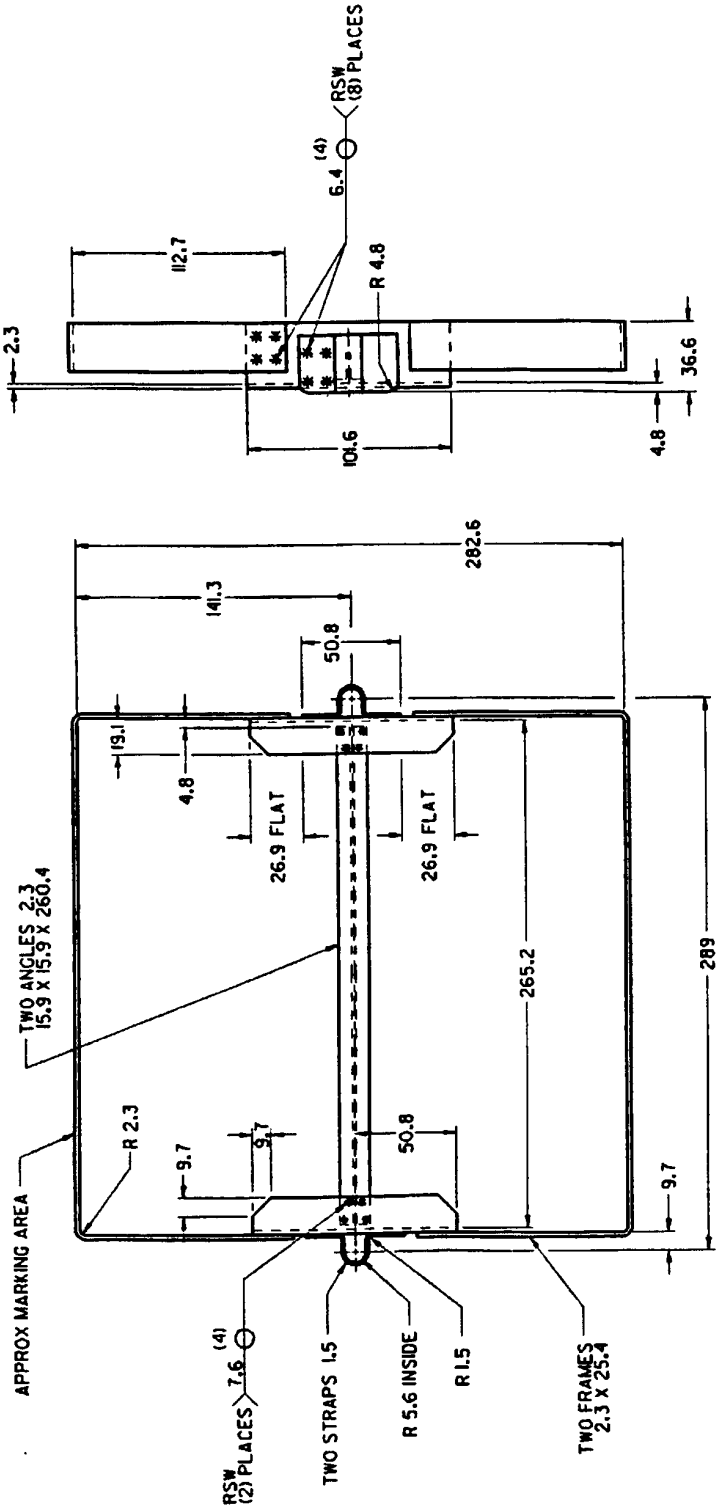


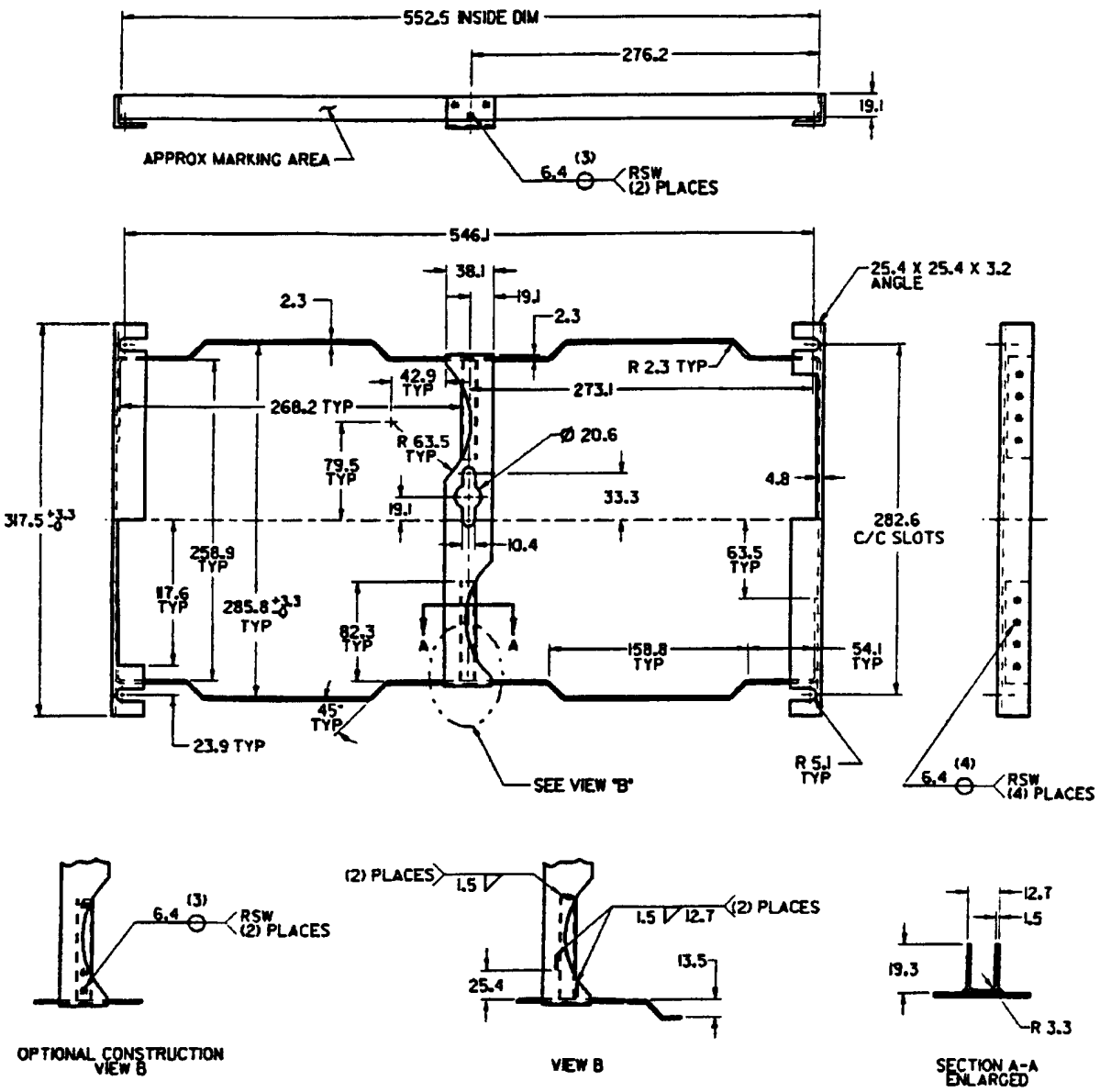
NOTE: Dimensions are in millimeters (mm). Unless otherwise specified, tolerances are ± .8 mm.

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



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

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



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

FIGURE 3. Type C, battery retainer for 6TN double battery.

2.2.2 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.

2.3 Finish.

2.3.1 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.

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

2.3.3 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.

2.3.4 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.

2.4 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 5.2 and 5.3).

3. 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, workmanship standards, and quality assurance practices. Item 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. 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).

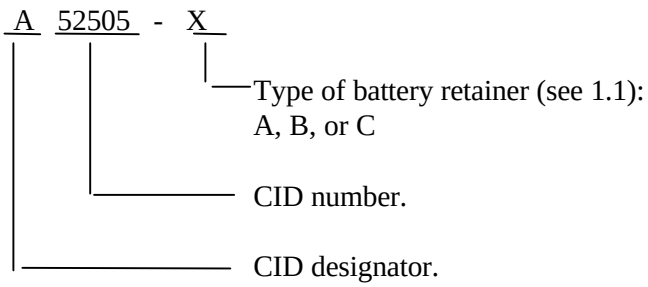
5. NOTES. (This section contains information of a general or explanatory nature that may be helpful but is not mandatory.)

5.1 Addresses for obtaining copies of referenced non-Government publications. Copies of ASTM A123 "Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products", ASTM A366 "Standard Specification for Steel, Sheet, Carbon, Cold-Rolled, Commercial Quality", ASTM A569 "Standard Specification for Steel, Carbon (0.15 Maximum, Percent), Hot-Rolled Sheet and Strip, Commercial Quality", and ASTM D2000 "Standard Classification System for Rubber Products in Automotive Applications" are available from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103. 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.

5.2 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. PIN and quantity required.
d. Selection of applicable level and packaging requirements.

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



5.4 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	6TN (double)

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

MILITARY INTERESTS:

Custodians
Army – AT
Air Force – 99

Review activities
Army - MI
Air Force - 84
DLA - CS

User activities
Army - ME
Navy - MC

CIVIL AGENCY COORDINATING ACTIVITY:
GSA-FSS

PREPARING ACTIVITY:
Army - AT

(Project 2590-0234)