

INCH-POUND

A-A-52402
July 10, 1992

COMMERCIAL ITEM DESCRIPTION

GUARD, SPLASH, WHEEL

The General Services Administration has authorized the use of this commercial item description as a replacement for MIL-G-23621B and MS51331D, which are canceled.

1. Abstract. This commercial item description (CID) covers wheel splash guards to prevent objects from being propelled rearward by the tires of motor vehicles and trailers while they are in motion.

2. Salient characteristics.

2.1 Description. The wheel splash guards covered by this CID are for use on motor vehicles and trailers. See figure 1 for sizes.

2.2 Materials. The splash guard shall be made of natural rubber, synthetic rubber, or a mixture including reclaimed rubber and reinforcing fabric. The fabric shall be good quality cotton, nylon, or equivalent material. The fabric shall be in woven layers or cords mixed homogeneously throughout the entire compound. The use of recovered material made in compliance with regulatory requirements is acceptable providing that all requirements of this CID are met (see 5.5).

2.2.1 Appearance. Both faces of the splash guard shall be rubber. All edges shall be molded and sealed. The color shall be black.

2.3 Design and construction.

2.3.1 Dimensions. Dimensions of the splash guard shall be as specified in Figure 1.

Beneficial comments recommendations, additions, deletions clarification, 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

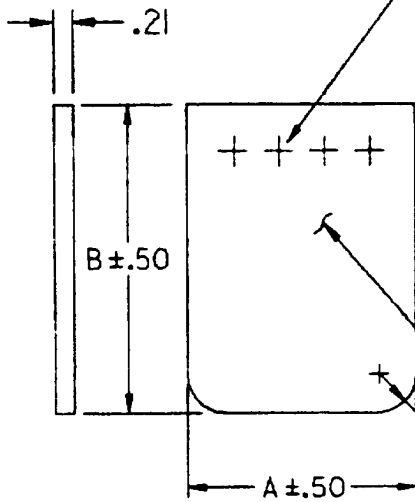
DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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SEE DETAIL "A" FOR MOUNTING HOLES

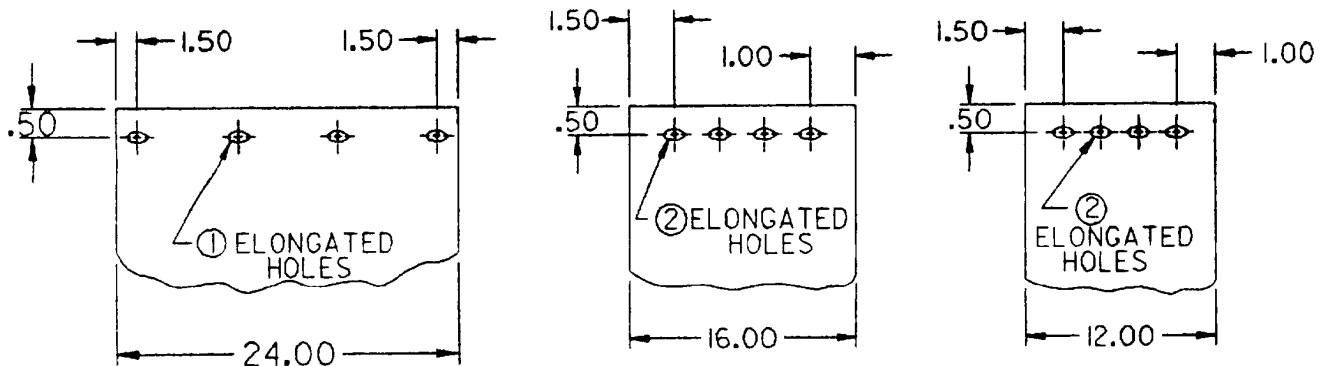
Cross reference of PIN to previous MS number and sizes

Part Identifying Number (PIN)	Former MS Part Number	Dimension	
		A	B
A52402-1	MS51331-1	12	18
A52402-2	MS51331-2	16	38
A52402-3	MS51331-3	24	36
A52402-4	MS51331-4	24	40
A52402-5	MS51331-5	24	48
A52402-6	MS51331-6	24	30



MARKING LOCATION OPTIONAL

2.00 R MAX (CHAMFER OPTIONAL)



DETAIL "A"

NOTES:

1. FOUR EVENLY SPACED HOLES FOR $3/8 \pm 1/16$ IN. DIAMETER BOLTS WITH 200% ELONGATION.
2. FOUR EVENLY SPACED HOLES FOR $5/16 \pm 1/16$ IN. DIAMETER BOLTS WITH 100% ELONGATION.
3. DIMENSION ARE IN INCHES.
4. UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE $\pm .06$.
5. IT IS NOT INTENDED TO LIMIT CONSTRUCTION TO FEATURES OTHER THAN AS SHOWN HEREIN BY DIMENSIONS AND NOTATIONS.

FIGURE 1. Guard splash wheel.

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2.3.2 Mounting. The splash guard shall have four elongated or holes as shown in figure 1.

2.4 Performance.

2.4.1 Tensile strength. The tensile strength of the material shall be not less than 1,000 pounds per square inch (psi) when tested in accordance with ASTM D412.

2.4.2 Elongation. The ultimate elongation shall be not less than 200 percent when tested in accordance with ASTM D412.

2.4.3 Ozone resistance. Rubber specimens shall not show evidence of cracking following exposure for 7 days (168 hours) to an atmosphere with an ozone concentration of 50 parts ozone per 100,000,000 parts air by volume at a temperature of 104 degrees Fahrenheit ($^{\circ}\text{F}$) when tested in accordance with ASTM D573.

2.4.4 Accelerated aging. After accelerated aging for a period of 16 hours in an air medium at atmospheric pressure and a temperature of $212 \pm 2^{\circ}\text{F}$, the material shall have a tensile strength and elongation of not less than 70 percent of the unaged values when tested in accordance with ASTM D573.

2.4.5 Low temperature brittleness. Specimens prepared from the basic rubber material shall not become brittle at a temperature of $-40^{\circ}\text{F} \pm 4^{\circ}\text{F}$. Failure shall be defined as the occurrence of cracks, fissures, crazing, or rupture when tested in accordance with ASTM D2137.

2.4.6 Hardness. The durometer hardness number of the material shall be not less than 60 when tested in accordance with ASTM D2240.

2.4.7 Flexibility. The splash guard shall be folded in the middle along its length with a weight of 100 pounds applied to the fold for a period of 5 minutes. The weight shall be placed on a board not less than 12 inches long with the weight resting on the central 12 inches of the fold. Splash guard shall not crack or show any evidence of failure.

2.5 Identification and marking. Identification and marking shall be permanent and legible in accordance with MIL-STD-130 and shall include the manufacturer's CAGE code and the part identification number (PIN).

2.6 Workmanship. Workmanship shall be in accordance with the manufacture of high quality splash guards. This shall be evidenced by the absence of any defects which are detrimental to their appearance or serviceability, such as, splash guard shall be free from blisters, cracks, embedded foreign matter, or other imperfections.

3. 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 or order.

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4. Preservation, packaging, packing, labeling, and marking. Preservation, packaging, packing, labeling, and marking for the desired level shall be as specified in the contract or order.

5. Notes.5.1 Addresses for obtaining copies of referenced documents.

5.1.1 Government specifications and standards. MIL-STD-130 "Identification Marking of U.S. Military Property" is 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. ASTM D412 "Standard Test Methods for Rubber Properties in Tension"; ASTM D573 "Standard Test Methods for Rubber Deterioration in an Air Oven"; ASTM D2137 "Standard Test Methods for Rubber Property-Brittleness Point of Flexible Polymers and Coated Fabrics"; and ASTM D2240 "Standard Test Method for Rubber Property-Durcometer Hardness" are available from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

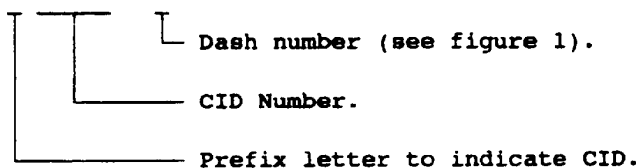
5.2 Acquisition data. Acquisition documents must specify the following:

- a. Title, number, and date of this specification.
- b. Size and PIN number of splash guard required (see 2.5 and figure 1).
- c. Issue of the DODISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 5.1.1 and 5.1.2).
- d. Selection of applicable level and packaging requirements (see 4).

5.3 Cross-reference data. Wheel splash guard conforming to this CID are interchangeable/substitutable with wheel splash guards conforming to MIL-G-23621 and MS51331D.

5.4 Part or identifying number (PIN) structure. The PINs to be used for wheel guard splash acquired to this CID are created as follows:

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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.

5.6 Metric product. Wheel splash guards 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 Federal Standard No. 376, and all other requirements of this CID are met.

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b. If a product is manufactured to metric dimensions are those dimensions exceeding 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.

Custodians:

Army - AT

Review activities:

Army - AT

DLA - CS

User activity:

Navy - MC

Preparing activity:

Army - AT

(Project 2540-0376)

