

[INCH-POUND]
A-A-59606
23 August 2002
SUPERSEDING
RR-A-1147B
13 June 1980

COMMERCIAL ITEM DESCRIPTION

ARM, WINDSHIELD WIPER: BLADE, WINDSHIELD WIPER: AND BLADE REFILL, WINDSHIELD WIPER

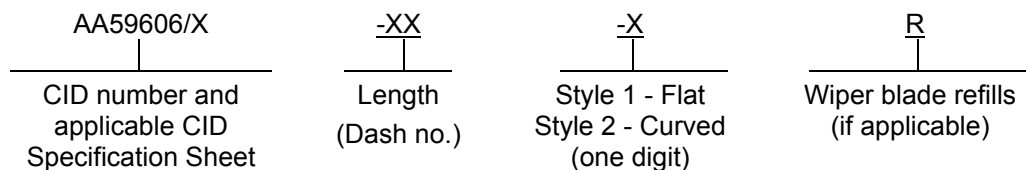
The General Services Administration has authorized the use
of this commercial item description for all federal agencies.

1. SCOPE. This CID covers the general requirements for windshield wiper arms, blades, and blade refills for use on automotive vehicles. Requirements for specific windshield wiper arms, blades, and blade refills for use on automotive vehicles are covered in the individual CID specification sheets. Windshield wiper arms, blades and blade refills for use on automotive vehicles covered by this CID are intended for commercial/industrial applications.

2. CLASSIFICATION/PART OR IDENTIFICATION NUMBER (PIN). This CID identifies the following class, style and size of wiper arms, windshield wiper blades, and windshield wiper blade refills. The associated CID specification sheets will utilize the classification system in the Part or Identification Number (PIN).

- Class A - Light Duty (Passenger and Light Truck Type Vehicles) meeting the requirements of A-A-59606/1 and A-A-59606/2.
- Class B - Heavy Duty (Commercial Trucks, Buses, Construction, and Tactical Type Vehicles) meeting the requirements of A-A-59606/3 and A-A-59606/4.
Style 1 - Flat
Style 2 - Curved
Sizes - Length (per paragraph 3.3.1)

The example of the PIN is as follows:



Example: AA59606/1-12-1R is the PIN for a light duty, 12-inch flat wiper blade refill.

Beneficial comments, recommendations, additions, deletions, clarifications, etc., and any data which may improve this document should be sent to: Defense Supply Center, Columbus, ATTN: DSCC-VAI, Post Office Box 3990, Columbus OH 43216-5000, or telephone (614) 692-0538, or facsimile (FAX) (614) 692-6939.

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

FSC 2540

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3. SALIENT CHARACTERISTICS.

3.1 Interface and physical dimensions. Windshield wiper arms, blades, and blade refills supplied to this CID shall be as specified on the applicable CID specification sheet.

3.2 Materials. Channel material shall be steel, corrosion resistant, composition 300 or 400 series in accordance with ASTM A240 or comparable industry standards. Clip material shall be steel, carbon sheet or strip CRCQ, Temper 3-5 in accordance with ASTM A109 or comparable industry standards. Element material shall be natural or synthetic rubber commensurate with best commercial practice.

3.3 Construction. Details of attachment and overall dimensions shall be as specified in A-A-59606/1, A-A-59606/2, A-A-59606/3, and A-A-59606/4.

3.3.1 Wiper blade. The blade shall be provided in a size range of lengths from 7-1/4 to 20 inches, with the dimensional range of sizes most used being 8, 10, 12, 14, 16, 18, and 20 inches as original equipment replacement. The blade shall include designs that are applicable to both flat and curved windshield styles. Blade hook or other means of connection to the arm shall be suitable to attach to, and function with, the wiper arms.

3.3.2 Adapters. Adapters permitting interchangeability of wiper blades to wiper arms of other manufacture shall be furnished with each blade. Necessary items such as nuts and washers, permitting interchangeability of wiper arms to wiper motors, shall be furnished with each arm.

3.3.3 Wiper arms. Extendable, fixed, and pantograph wiper arms shall be in the size range from 7-1/2 to 24 inches, with the dimensional range of sizes most used for original equipment replacement being 10, 12, 14, 16, 18, 20, 22, and 24 inches. The extendable wiper arms shall be adjustable within each stated effective length. The adjustment shall not be affected or changed as a result of operating the wiper system. The wiper arm shall function properly with the driver assemblies shown (see CID A-A-59606/2 and CID A-A-59606/3). Details of attachment shall include retainers or head assemblies for knurled, serrated, threaded, flat taper, or pinned shafts. An adjustable connector hook shall be provided on the end of the arm to enable right-hand and left-hand operation.

3.4 Performance. Arms, blade and wiping elements, and blade refills shall conform to Federal Motor Vehicle Safety Standard 104 (49 CFR 571.104) and meet the performance requirements specified herein and in SAE J903 (for Class A) or SAE J198 (for Class B),

3.4.1 Wiper arm resistance to push and pull. Position of the wiper arm in relation to the drive shaft shall not change, when subjected to a push or pull of 2 pounds against the free end of the arm, in its normal direction of travel.

3.4.2 Wiping element retention. Wiping element of the wiper blade assembly and wiper blade refills shall be so held that it shall not pull out or separate from the blade assembly under all conditions of operation. It shall withstand a direct pull in the major plane of the blade, and at right angles to the major axis of the blade, of not less than 15 pounds without separating from the metal frame of the blade assembly.

3.4.3 Temperature operational capability. Class A arms, blades and refills shall meet the temperature operational capability requirements of SAE J903. Class B arms, blades and refills shall meet the low temperature operational capability requirements of SAE J198 and shall withstand an ambient air temperature of 200°F for 104 hours, plus 212°F for 70 additional hours without evidence of damage or deterioration.

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3.4.4 Wiper blade aging. The wiper blade element shall withstand the applicable ozone resistance test with the specified exposure times. Class A components shall meet the requirements of SAE J903 with a 72 hour exposure time. Class B components shall meet the requirements of SAE J198 with a 168 hour exposure time.

3.5 Finish. Unless otherwise specified (see 7.4), all ferrous metal components of the arm and blade shall be treated with a phosphate coating or supplied with a black dichromate finish.

3.6 Marking. Windshield wiper arms, blades, and blade refills supplied to this CID shall be marked with the manufacturer's (MFR's) standard commercial part number.

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 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 (see 7.4).

6. **PACKAGING**. Preservation, packing, and marking shall be as specified in the contract or order (see 7.4).

7. NOTES.

7.1 PIN. The PIN should be used for Government purposes to buy commercial products to this CID. See the applicable CID specification sheet for PIN.

7.2 Commercial and Government Entity (CAGE) code. For ordering purposes, inventory control, and submission of these windshield wiper arms, blades, and blade refills to DSCC under the Military Parts Control Advisory Group (MPCAG) evaluation program, CAGE code 58536 should be used.

7.3 Source of documents.

COMMERCIAL ITEM DESCRIPTIONS

| | | |
|-------------|---|---|
| A-A-59606/1 | - | Blade, Windshield Wiper, Light Duty (Class A) |
| A-A-59606/2 | - | Arm, Windshield Wiper, Adjustable, Light Duty (Class A) |
| A-A-59606/3 | - | Arm, Windshield Wiper, Adjustable Heavy Duty (Class B) |
| A-A-59606/4 | - | Blade, Windshield Wiper, Heavy Duty (Class B) |

(Copies of federal specifications and standards are available from the Document Automation and Production Service, Building 4D (DPM-DODSSP), 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

OTHER PUBLICATIONS

FEDERAL ACQUISITION REGULATIONS (FAR)

| | | |
|------------|---|---------------------------------|
| FAR 23.403 | - | Federal Acquisition Regulations |
|------------|---|---------------------------------|

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DEPARTMENT OF TRANSPORTATION (DOT)

- 49 CFR 571.104 - Windshield Wiping and Washing Systems - Passenger Cars, Multipurpose Passenger Vehicles, Trucks, and Buses (FMVSS 104)

(Applications for copies should be addressed to the Superintendent of Documents, U.S. Government Printing Office, 732 N. Capital Street, NW #808, Washington, DC 20402-0001.)

SOCIETY OF AUTOMOTIVE ENGINEERS (SAE)

- SAE J198 - Recommended Practice for Windshield Wiper Systems - Trucks, Buses and Multipurpose Vehicles
SAE J903 - Recommended Practice for Passenger Car Windshield Wiper Systems

(Applications for copies should be addressed to the Society of Automotive Engineers International, 400 Commonwealth Drive, Warrendale, PA 15096-0001.)

(Industry association specifications and standards are generally available for reference from libraries. They are also distributed among technical groups and using Federal agencies.)

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

- ASTM A 240 - Standard Specification for Heat - Resisting Chromium and Chromium - Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessel.
ASTM A 109 - Standard Specification for Steel, Strip, Carbon (0.25 maximum percent) Cold - Rolled.

7.4 Ordering data. The contract or order should specify the following:

- a. CID document number, revision, and CID PIN.
- b. When different finish (olive drab or camouflage green) is required (see 3.5).
- c. Product conformance provisions (see 5.1).
- d. Packaging requirements (see section 6).

7.5 Government users. To acquire information on obtaining these products from the Government inventory system, please contact the DSCC call center: Defense Supply Center Columbus Office Code: DSCC-NAB, Post Office Box 3990, Columbus, OH 43216-5000, or telephone (614) 692-3191.

7.6 Keywords.

Automotive
Wiper system
Wiper blade

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MILITARY INTERESTS:

Custodians:

Air Force - 99

Army - AT

Navy - MC

DLA - CC

Review activities:

Air Force - 84

Navy - SA

CIVIL AGENCY COORDINATING ACTIVITY:

GSA/FSS

Preparing activity:

DLA - CC

(Project 2540-0463-01)