

MIL-C-27505B (USAF)
AMENDMENT 2
20 Jul 83
SUPERSEDING
AMENDMENT 1
12 JULY 1973

MILITARY SPECIFICATION

CARTRIDGE, ENGINE STARTER MXU-4A/A

This amendment forms a part of Military Specification MIL-C-27505B (USAF) dated 15 June 1967, and is approved for use within the Department of the Air Force and is available for use by all Departments and Agencies of the Department of Defense.

PAGE 1

* Section 1 delete and substitute the following:

" 1. SCOPE

1.1 Scope. This specification covers the requirements for one type of solid propellant engine starter cartridge, designated MXU-4A/A."

* Section 2 APPLICABLE DOCUMENTS, delete in its entirety and substitute the following:

" 2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications and standards. Unless otherwise specified the following specifications and standards of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DoDISS) specified in the solicitation form a part of this specification to the extent specified herein.

Add the following note on the bottom center of the page immediately above the FSC Designation:

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Ogden ALC/MMEDO Hill Air Force Base, Utah 84056 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

FSC 1377

MIL-C-27505B (USAF)

Amendment 2

SPECIFICATIONS

Military

MIL-I-6866	Inspection, Penetrant Method of
MIL-S-27266	Starter, Engine, Cartridge/Pneumatic, Shaft Drive, General Specification for

STANDARDS

Military

DOD-STD-100	Engineering Drawing Practices
MIL-STD-105	Sampling Procedures and Tables for Inspection by Attributes
MIL-STD-129	Markings for Shipment and Storage
MIL-STD-130	Identification Marking of US Military Property
MIL-STD-143	Standards and Specifications, Order of Precedence for the Selection of
MIL-STD-210	Climatic Extremes for Military Equipment
MIL-STD-414	Sampling Procedures and Tables for Inspection by Variables for Percent Defective
MIL-STD-453	Inspection, Radiographic
MIL-STD-810	Environmental Test Methods
MIL-STD-831	Test Reports, Preparation of
MIL-STD-889	Dissimilar Metals
MIL-STD-1167	Ammunition Data Card
MIL-STD-1168	Ammunition Lot Numbering
MIL-STD-1523	Age Controls of Age-Sensitive Blastomeric Materiel
MIL-STD-1595	Aerospace Welder Performance Qualification

2.1.2 Other Government documents, drawings, and publications.
The following other Government documents, drawings and
publications form a part of this specification to the extent
specified herein.

MIL-C-27505B (USAF)
Amendment 2

AIR FORCE TECHNICAL ORDERS

T.O. 11A-1-47 Department of Defense Explosive
Hazard Classification Procedures

TRANSPORTATION PACKAGING ORDERS (TPO)

TPO 01-080-8252 Cartridge, Engine Starter,
MXU-4A/A

TPO 00-863-9387 Cartridge, Engine Starter,
MXU-4A/A

(Copies of specifications, standards, handbooks, drawings, and publications required by manufacturers in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting officer).

2.2 Other publications. The following document(s) form a part of this specification to the extent specified herein. The issues of the documents which are indicated as DOD adopted shall be the issue listed in the current DoDISS and the supplement thereto, if applicable.

AEROSPACE MATERIALS SPECIFICATIONS

AMS 2645 Fluorescent Penetrant Inspection

AMS 2650 Fluoroscopic X-Ray Inspection

(Application for copies should be addressed to the society of Auto Engineers, Incorporated, 485 Lexington Avenue, New York, New York 10017).

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

2.3 Order of precedence. In the event of a conflict between the text of this specification and the references cited herein, the text of this specification shall take precedence."

PAGE 3

Paragraph 3.3.1: Delete and substitute as follows:

"3.3.1 Definition and symbols. Terms, their definitions, and symbols used in the model specification shall be in accordance with industry standards or 6.3."

MIL-C-27505B (USAF)

Amendment 2

PAGE 5

* Paragraph 3.5 Materials: Add the following. "The use of reclaimed materials shall be encouraged to the maximum extent possible."

Paragraph 3.5.3: Delete "MS 33586" and substitute "MIL-STD-889."

PAGE 6

FIGURE 1: Delete and substitute the figure 1 attached hereto,

PAGE 7

Paragraph 3.9.5: Delete and substitute the following:

"3.9.5 Flame temperature. The measured gas temperature for any firing at any temperature in the range from -65°F to +160°F shall not exceed 2,100°F. The adiabatic flame temperature of the propellant shall be specified in the model specification."

PAGE 13

* Paragraph 3.16.1: Delete "MIL-STD-100" and substitute "DOD-STD-100".

PAGE 14

* Paragraph 3.20: Delete "MIL-T-5021" and substitute "MIL-STD-1595".

PAGE 15

* Paragraph 3.23.2: Delete "ANA Bulletin No. 438" and substitute "MIL-STD-1523".

Paragraph 4.1: Delete and substitute the following:

"4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements."

MIL-C-27505B (USAF)
Amendment 2

PAGE 29

* Section 5: Delete in its entirety and substitute the following:

"5 PACKAGING

5.1 Preservation-packaging. Depending on the National Stock Number (NSN) involved, the cartridges shall be preserved/packaged and packed in accordance with either Transportation Packaging Order (TPO) 00-863-9387 or 01-080-8252.

5.2 Markings. In addition to any special marking required by the contract (see 6.2) each unit package, intermediate and exterior container and unitized load shall be marked in accordance with MIL-STD-129".

PAGE 31

Paragraph 6.3.1: Delete and substitute the following:

"6.3.1 Ballistic terms. Ballistic terms and symbols for ballistic parameters should be in accordance with industry standard practices for terms and symbols associated with solid propellant rockets".

PAGE 33

* Delete preparing activity, custodians, and review and user interest information and substitute the following:

Custodian:
Air Force - 99

Preparing Activity:
Air Force - 70

PAGE 39

Paragraph 3.9.5 of APPENDIX: Delete and substitute:

"3.9.5 Flame temperature. The measured gas temperature for the maximum condition experienced is _____ at -65/+59/+160°F.
(The adiabatic flame temperature shall be given)."

PAGE 42

Paragraph 3.14 of APPENDIX: Delete entirely

PAGE 43

Paragraph 3.19.3 of APPENDIX: Correct the paragraph number to read "3.17.3".

MIL-C-27505B (USAF)

Amendment 2

Paragraph 3.19.4 of APPENDIX: Change the paragraph number to read "3.17.4".

Paragraph 4.6.2.1 of APPENDIX: Correct the paragraph number to read "4.5.2.1".

Paragraph 4.6.2.5 of APPENDIX: Correct the paragraph number to read "4.5.2.5".

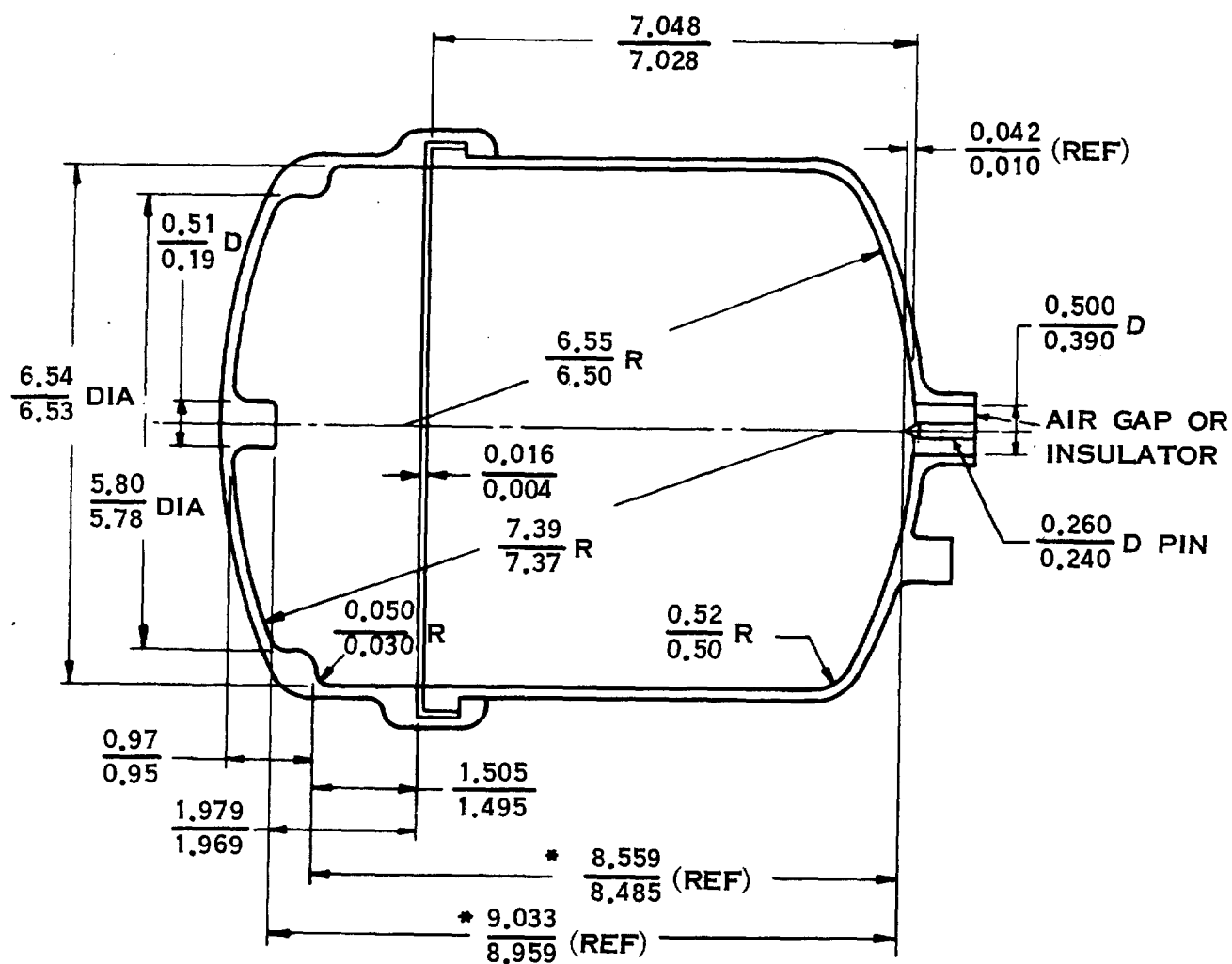
NOTE: "The margins of this amendment are marked with an asterisk or vertical lines to indicate where changes (additions, modifications, corrections, deletions) from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment".

Custodian:
Air Force - 99

Preparing Activity:
Air Force - 70

Project No. 1377-F717

MIL-C-27505B (USAF)
Amendment 2



* EXTREME LIMITS OF TOLERANCE STACKUP

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FIGURE 1. INTERIOR DIMENSIONS OF CARTRIDGE BREECH