

MIL-M-45196A (Ord)  
AMENDMENT 2  
15 December 1963  
SUPERSEDING  
AMENDMENT 1  
1 April 1963

MILITARY SPECIFICATION

MINE, ANTIPERSONNEL  
M16A1  
PARTS FOR

This amendment forms a part of Military Specification MIL-M-45196A (Ord), dated 23 July 1962.

Delete "MIL-M-45196A (Ord)" wherever it appears in this specification and substitute "MIL-M-45196A (MU)".

Page 2 - Paragraph 2.1, under PUBLICATIONS, delete: "IEL-8802002" and substitute "IEL-8796365".

\*Page 6 - Paragraph 4.3.2.2, under Major Defects, add:

"115 Perpendicularity of bottom of top well counterbore with flashpipe thread.....Gage 01019"

\*Page 10 - Paragraph 4.3.2.10, under Major Defects, add:

"108 Perpendicularity of under side of flange with thread.....Gage 09013"

Page 14, Paragraphs 4.3.3.1 and 4.3.3.1.1: Delete these paragraphs and substitute 4.3.3.1 leak test of flash pipe 08010 assembly (see dwg. 8796360 covering a detail of dwg. 8796345) Major defect.-The sampling plan for this test shall be in accordance with Standard MIL-STD-105 using inspection level II and an AQL of 0.40 percent. The test shall be performed as specified in 4.4.1 using equipment in accordance with 4.3.4. Any flash pipe which fails to comply with the specified requirement shall be classed defective.

Page 14, add paragraphs 4.3.2, 4.3.3.2.1, 4.3.3.2.2, 4.3.3.2.3 and 4.3.3.2.4 as follows: 4.3.3.2 Salt spray resistance (see dwgs. 8796338, 8796361, 8796352, 8796355, 8796356, 8796358 and 8796363). Major defect.-For these components, determination of compliance with the applicable requirements shall be in accordance with the provisions of the applicable drawings and specifications. A random sample of five units shall be selected from each lot of each of these items for these tests. Failure of one or more sample units to meet the applicable requirements shall be cause for rejection of the corresponding lot. In all tests actual components shall be used (separate panels or specimens are not permitted).

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4.3.3.2.1 Body (Code number 01019) and Plug, Top (Code number 09013).-- This test shall be performed as specified in 4.4.2 using equipment in accordance with 4.3.4.

4.3.3.2.2 Delay Assembly.--This test shall be 15001 performed as specified in 4.4.3 using equipment in accordance with 4.3.4.

4.3.3.2.3 Spool Assembly.--This test shall be 05007 performed as specified in 4.4.4 using equipment in accordance with 4.3.4.

4.3.3.2.4 Plug, Filler Hole (Code number 07013); Pipe, Flash (Code number 16001); and Housing, Propelling Charge (Code number 11007).--This test shall be performed as specified in 4.4.5 using equipment in accordance with 4.3.4.

Page 14 - Paragraph 4.3.4: delete entire paragraph and substitute:

4.3.4 Inspection Equipment.--Index of Inspection Equipment Number IEL 8796365 identifies the inspection equipment required to perform the examinations and tests prescribed in this section. The contractor shall design inspection equipment in accordance with the instructions in paragraph 6.3.

4.3.4.1 Government rights to documentation.--Inspection equipment drawings and lists provided and revised in accordance with the requirements of the IEL may be used by DOD activities for design, procurement, manufacture, testing, evaluation, production and receiving inspection, overhaul, shipping, storage, identification of stock, ordering and storage of replacement of parts, inspection of items at overhaul, general maintenance of equipment, construction survey and wherever inspection equipment drawings are needed.

4.3.4.2 Supply and maintenance.--Supply and maintenance of the equipment listed on the IEL shall be in accordance with Specification MIL-I-45607.

Page 14, add paragraphs 4.4.2, 4.4.3, 4.4.4 and 4.4.5 as follows:

4.4.2 Salt spray resistance of Plug, Top and Body.--This test shall be performed as specified in MIL-P-11414 for lacquered parts and as specified in MIL-E-10687 for enameled parts with the exception that exposure shall consist of 72 hours minimum. Parts so tested shall be scrapped or refinished.

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4.4.3 Salt spray resistance of Delay Assembly.-This test shall be performed as specified in MIL-C-5541 with the exception that exposure shall consist of 24 hours minimum. Parts so tested shall be scrapped.

4.4.4 Salt spray resistance of Spool Assembly.-This test shall be performed as specified in QQ-M-151 and the exposure time shall consist of 24 hours. Parts so tested shall be scrapped.

4.4.5 Salt spray resistance of Plug, Filler Hole; Pipe, Flang; and Housing, Propelling Charge.-This test shall be performed as specified in QQ-Z-325 for zinc plated parts and as specified in QQ-P-416 for cadmium plated parts with the exception that exposure shall consist of 24 hours minimum. Parts so tested shall be scrapped or replated.

Page 17 - Section 6: delete entire section and substitute:

6. NOTES

6.1 Ordering data.-Procurement documents shall specify the following:

a. Title, number and date of this specification.

6.2 Inspection code numbers.-The five digit code numbers assigned to the inspections herein are to facilitate future data collection and analysis by the Government.

6.3 Inspection equipment.-The contractor shall design inspection equipment as required by the referenced Inspection Equipment Lists in accordance with the instructions of paragraphs 6.3.1 through 6.3.7.

6.3.1 Inspection equipment lists.-Inspection equipment lists (IEL) indicate the availability of inspection equipment design by showing in the "number" column of the list of inspection equipment (OO Form 1242-3) the numbers of drawings of existing equipment designs or codes indicating "commercial item" or "contractor design". Design action required of the contractor with respect to the different types of drawings that may be listed is described in paragraphs 6.3.2 and 6.3.3. Action required by the contractor with respect to "commercial item" inspection equipment is described in paragraph 6.3.4. The contractor will be required to prepare drawings for all the equipment coded as "contractor design" in the number column.

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The code will further indicate whether detailed or specification control drawings are required. These contractor designs must be approved by the Government prior to fabrication or procuring of the equipment. Designs shall be submitted for approval as specified in 6.3.7.

**6.3.2 Ordnance Designs.**-Ordnance designs are detailed drawings which completely depict all the information necessary for the fabrication of the item of inspection equipment. The contractor need provide no design when an Ordnance design is listed for an item of inspection equipment. Ordnance designs fall into two basic classifications; mandatory and non-mandatory. When an IEL references mandatory Ordnance designs, the contractor shall comply with, and use these designs accordingly. The contractor may, however, in connection with non-mandatory designs and with the approval of the Government, design alternate inspection equipment to facilitate his operations. Such contractor prepared designs must be approved by the Government prior to fabrication or procuring of the equipment. Designs shall be submitted for approval as specified in 6.3.7.

**6.3.3 Specification control drawings.**-Specification control drawings depict the device in outline, descriptive, diagrammatic, or pictorial form only and specify the required performance or other characteristics. Contractors must prepare drawings of their designs in support of specification control drawings. The IEL code will indicate whether drawings must be detailed. These contractor prepared designs must be approved by the Government prior to the fabrication or procuring of the equipment. Commercial equipment meeting the requirement of specification control drawings may be approved if described in sufficient detail to permit identification and evaluation by the Government. Designs shall be submitted for approval as specified in 6.3.7.

**6.3.4 Commercial items.**-Commercial item inspection equipment is equipment that has a universal application for a specific function. It is comprised of items commonly used by industry and government. Contractors are not required to furnish drawings of commercial item inspection equipment but a list of such equipment must be approved by the Government. Lists shall be submitted for approval to the inspection element of the agency administering the contract.

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6.3.5 IEL codes.-The inspection equipment referenced in paragraphs 6.3.2, 6.3.3, and 6.3.4 will be designated in the IEL by the following codes:

- CDOF - Contractor's design responsibility on Ordnance format;  
ORDM-608-12.
- CDCF - Contractor design responsibility on contractor format.
- OD - Ordnance design.
- ODMU - Ordnance design, mandatory for use.
- CE - Commercial equipment.
- SCD - Specification control drawing.

6.3.6 Use of standard measuring equipment.-If the contractor desires to use standard measuring equipment in lieu of government or contractor designed gages, diagrammatic sketches or other descriptions of the use of such equipment shall be submitted for approval as specified in 6.3.7.

6.3.7 Submission of contractor designs.-Designs shall be submitted for approval to the Commanding Officer, Picatinny Arsenal, ATTN: SMUPA-ND. Design review will normally be accomplished within one month after receipt by Picatinny Arsenal. Partial submission of inspection equipment designs is permissible. However, the Arsenal completion date for design review will be based on the date of the final submission of designs.

\*Asterisk indicates changes in addition to, or differing from, Amendment 1.

Custodian:  
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Preparing activity:  
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