

MIL-G-45397D(WC)  
AMENDMENT 2  
17 February 1977  
SUPERSEDING  
AMENDMENT 1  
8 June 1976

MILITARY SPECIFICATION

GUN, FIELD ARTILLERY, SELF-PROPELLED:

175MM, M107; HOWITZER, HEAVY, SELF-

PROPELLED: 8 INCH, M110 AND M110A1

This amendment forms a part of Military Specification  
MIL-G-45397D(WC) dated 16 June 1969.

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Add to title "AND M110A1".

Para 2.1 - Delete title for MIL-G-46723 and substitute "Gun, Self-Propelled, Full Tracked: 175MM, M107, Howitzer, Self-Propelled, Full Tracked, 8 Inch, M110 and Howitzer, Self-Propelled, Full Tracked, 8 Inch, M110A1: Preparation for Storage and Shipment of".

Add "MIL-E-52798 - Enamel, Alkyd, Camouflage  
MIL-E-52835 - Enamel, Modified Alkyd, Camouflage, Lusterless".

Delete "Fed. Std. No. 595 - Colors".

Page 2

Para 2.1 - Add "MIL-STD-1471 - Noise Limits For Army Materiel".

\* Add "MIL-STD-1246 - Product Cleanliness Levels and Contamination Control Program".

Delete "HEL S-1-63B" and title, two places.

Under "Drawings" add the following:

"LD-8736971 - Howitzer, Self-Propelled, 8 Inch, M110A1"

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Under "Publications" add the following:

"LP-8736971 - Howitzer, Self-Propelled, 8 Inch, M110A1"  
"LS-8736971 - Howitzer, Self-Propelled, 8 Inch, M110A1"  
"QM-8736971 - Howitzer, Self-Propelled, 8 Inch, M110A1"

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Para 3.3.2, End of first sentence - Delete "herein" and substitute "in MIL-STD-417, Suffix C<sub>1</sub>".

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Para 3.4 - Delete in its entirety and substitute the following:

"3.4 Construction. All vehicles, sub-assemblies and assemblies shall be fabricated and assembled into a complete vehicle in accordance with Drawings, parts lists and specifications as specified on LD-8736338, LP-8736338 and LS-8736338 for the M110; LD-8736339, LP-8736339 and LS-8736339 for the M107; LD-8736971, LP-8736971 and LS-8736971 for the M110A1 and associated documents and publications referenced herein. All parts requiring identification shall be marked in accordance with MIL-STD-130."

Para 3.4.5.1 - Delete in its entirety and substitute the following:

"3.4.5.1 Fuel cell. Provisions shall be made to assure the internal cleanliness of the hull chamber containing the fuel cell bladder. All weld slag and foreign material shall be removed prior to installing the fuel bladder and initial filling with fuel. All connections to the bladder shall be free from leakage during all conditions of vehicle operation. The fuel bladder shall be capable of receiving 50 gallons of fuel per minute."

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Para 3.4.16.1 - Delete in its entirety and substitute the following:

"3.4.16.1 Generator voltage. The engine shall be operated at a minimum of 1,000 revolutions per minute (rpm) for 30 minutes at which time the generator output voltage shall be between 27.5 and 29.0 volts under all conditions of vehicle operation."

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Para 3.4.19 - Line 2, after "M107" add "and Howitzer, Self-Propelled, 8 Inch, M110A1".

Para 3.5.1 - Delete the second sentence and substitute "The vehicle, including all components requiring lubrication, shall be lubricated as specified on Drawing C10904393, referenced in LP-8736338, LP-8736339 and LP-8736971 and serviced with fuel conforming to Grade DF-2 of VV-F-800."

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Para 3.6.10 - Delete "tranches" and substitute "trenches".

\* Add the following new paragraph:

"3.6.12.5 Hydraulic fluid contamination. Hydraulic fluid contamination in the M107, M110 and M110A1 vehicle hydraulic system shall not exceed Level 200 of MIL-STD-1246."

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Para 3.8.1 - Delete last sentence and substitute "Vehicle exterior paint shall be Forrest Green, gloss and infrared reflection in accordance with MIL-E-52798 or MIL-E-52835."

Para 3.9.1 - Delete "HEL S-1-63B" and substitute "MIL-STD-1474, Category B (Preferred Frequencies)", 2 places.

Para 3.9.2 - Delete "HEL S-1-63B" and substitute "MIL-STD-1474, Category B (Preferred Frequencies)."

Para 3.9.3 - Delete "HEL S-1-63B" and substitute "MIL-STD-1474, Category B (Preferred Frequencies)".

Para 3.9.3.1 - Delete "HEL S-1-63B" and substitute "MIL-STD-1474, Category B (Preferred Frequencies)".

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Para 3.10, last line - Delete "35" and substitute "55".

Para 4.1.2 - Line 3, after "M107" add "and LD-8736971 and QM-8736971 for the M110A1".

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\* Add the following new paragraph:

"4.5.1.21.1 Hydraulic fluid contamination test. Vehicle hydraulic fluid shall be tested for contamination in accordance with MIL-STD-1246."

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Para 4.5.1.24.1 (f) - Delete the first sentence and substitute "A master Panoramic Telescope M115 and a master Direct Sighting Telescope M116 or M116C or M139 (see 6.4)."

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Para 4.5.3.7 Delete in its entirety and substitute the following:

"4.5.3.7 Cooling system tests. To determine conformance to 3.6.2.1, the vehicle shall be operated as specified and the cooling systems checked for functional requirements."

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Figure 2 - Delete "Direct Fire Telescope M116" and substitute "Direct Fire Telescope M116 or M116C and M139".

At end of title, add "and M110A1".

All pages

Delete "MIL-G-45397D(AT)" and substitute "MIL-G-45397D(WC)".

\* The margins of this amendment are marked with an asterisk to indicate where changes (additions, modifications, 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.

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