

INCH-POUND

MIL-DTL-45500E(AR)
AMENDMENT 1
23 July 1999

DETAIL SPECIFICATION

GUN, AUTOMATIC, 20MM,
GENERAL SPECIFICATION FOR

This amendment forms a part of Military Specification MIL-DTL-45500E (AR), dated 18 December 1996 and is approved for use by the U.S. Army Armament Research, Development and Engineering Center (ARDEC), and is available for use by all Departments and Agencies of the Department of Defense.

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3.4.4, CHANGE FROM:

"3.4.4 Functioning. Guns shall operate without malfunctions, except that one misfire shall be allowed in each 75/100 rounds fired and no parts becoming unserviceable. Guns shall meet the functioning requirements specified herein, and as specified in the applicable specification sheet. Unless otherwise specified herein, the steady state rate of fire shall be calculated using the last fifty percent of the burst excluding stopping time. Ammunition used for the function firing shall be Government Standard 20mm, M55A2 cartridges and 20mm, M51 series or PGU-39/B dummy cartridges. Testing shall be as specified in 4.5.3.3."

TO:

"3.4.4 Functioning. Guns shall operate without malfunctions, except that one misfire shall be allowed in each 75/100 rounds fired and no parts becoming unserviceable. Guns shall meet the functioning requirements specified herein, and as specified in the applicable specification sheet. Unless otherwise specified herein, the steady state rate of fire shall be calculated using the last fifty percent

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of the burst excluding stopping time. Ammunition used for the function firing shall be Government standard 20mm, M55A2 or PGU-27/B cartridges and 20mm, M51 series PGU-39/B dummy cartridges. Testing shall be as specified in 4.5.3.3."

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3.4.5, CHANGE FROM:

"3.4.5 Targeting and accuracy. Using Government standard 20mm, M55A2 cartridges the targeting and accuracy requirements shall be as specified in the applicable specification sheet. Testing shall be as specified in 4.5.3.3"

TO:

"3.4.5 Targeting and accuracy. Using Government standard 20mm, M55A2 or PGU-27/B cartridges, the targeting and accuracy requirements shall be as specified in the applicable specification sheet. Testing shall be as specified in 4.5.3.3"

3.4.6, CHANGE FROM:

"3.4.6 Endurance. Requirement for endurance testing shall be as specified in the contract (see 6.2). Guns shall be capable of withstanding the firing of 25,000 or 30,000 rounds, (as specified in the applicable specification sheet), of Government standard 20mm, M55A2 cartridges, with no misfires exceeding 0.5 percent of each series attributable to the gun, and not more than a total of three malfunctions for the entire test. In addition..."

TO:

"3.4.6 Endurance. Requirement for endurance testing shall be as specified in the contract (see 6.2). Guns shall be capable of withstanding the firing of 25,000 or 30,000 rounds, (as specified in the applicable specification sheet), of Government standard 20mm, M55A2 or PGU-27/B cartridges, with no misfires exceeding 0.5 percent of each series attributable to the gun, and not more than a total of three malfunctions for the entire test. In addition..."

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3.4.6, CHANGE FROM:

"The schedule for maintenance and replacement parts during the endurance firing shall be in accordance with the applicable specification sheet."

TO:

"The schedule for maintenance and replacement parts during the endurance firing shall be in accordance with the applicable maintenance publication for that gun."

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4.6.7.2.1, CHANGE FROM:

"4.6.7.2.1 Guns. Guns subjected to the inter-plant interchangeability test shall be given a preliminary firing test of 12 cartridges, 20mm Target Practice, M55A2 to assure proper operation before parts are interchanged. Parts shall be disassembled from the guns and identified as to manufacture. Disassembled parts shall be mixed and guns reassembled by random selection of parts. After assembly, the guns shall be tested for functioning, targeting and accuracy requirements using the tests specified in 4.6.4 and 4.6.5. Before guns are returned to the contractors, the original parts shall be reassembled to their respective weapons and given a functioning test using a belt of 50 cartridges, 20mm, Dummy, M51 series."

TO:

"4.6.7.2.1 Guns. Guns subjected to the inter-plant interchangeability test shall be given a preliminary firing test of 12 cartridges 20mm Target Practice, M55A2 or PGU-27/B to assure proper operation before parts are interchanged. Parts shall be disassembled from the guns and identified as to manufacturer. Disassembled parts shall be mixed and guns reassembled by random selection of parts. After assembly, the guns shall be tested for functioning, targeting and accuracy requirements using the tests specified in 4.6.4 and 4.6.5. Before guns are returned to the contractors, the original parts shall be reassembled to their respective weapons and given a functioning test using a belt of 50 cartridges, 20mm, M51 series or PGU-39/B dummy cartridges."

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6.3 Technical Manuals. Add:

"NAVAIR 11-95M61A2-1"

"Maintenance Instructions with
Illustrated Parts Breakdown
Intermediate Maintenance Level
M61A2 20mm Lightweight
Automatic Gun
Part Numbers 12913464,
12913464-1

Custodian:
Army-AR

Preparing activity:
Army-AR

(Project 1005-0844)