

DEPARTMENT OF THE ARMY SUPPLY BULLETIN  
CHARGE, DEMOLITION: BLOCK, M3, M5A1, M112, and  
CHARGE ASSEMBLY, DEMOLITION:  
M37 SERIES OR M183  
AMMUNITION SURVEILLANCE PROCEDURE

Headquarters, Department of the Army, Washington, DC  
30 September 1976

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**1. Purpose and Scope.** This bulletin when used in conjunction with SB 742-1 provides a method for determining the serviceability of the subject item. The bulletin is to be used in the assessment of the serviceability of individual charges only. The provisions of this bulletin are mandatory for use by all Department of the Army organizations within CONUS and overseas with a receipt, storage, and distribution mission. This bulletin is not intended for use by organizations with stocks in basic loads. Additional information pertaining to frequency of test, sample selection, defect standards, reports and records are contained in SB 742-1.

**2. Errors, Omissions, and Recommended Changes.** Reporting of errors, omissions, and recommendations for improving this bulletin by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications and Blank Forms) and forwarded to Director, US Army Materiel Systems Analysis Activity, ATTN: DRXSY-RW, Aberdeen Proving Ground, MD 21005.

**3. Safety.** The surveillance function testing must be conducted in accordance with the provisions set forth in

appropriate safety regulations and implementing instructions, with special attention devoted to technical manuals describing the item.

**4. Size of Sample.** The number of samples required to make up a representative sample from a lot for a surveillance function test is as follows:  
For check investigation .....as directed  
For classification investigation .....24  
For confirmation investigation .....as directed

**5. Sample Selection.** Sample blocks will be selected in accordance with the provisions of SB 742-1 with the exception that not more than four blocks may be selected from any one box. The sample blocks which are short 20 grams of explosives will be repackaged short for 20 grams with a card attached stating that 20 grams were removed for function test. The name of the installation performing the test and date of test should also be indicated.

**6. Preparation, for Test.** Samples selected will be numbered 1 through 24 and identified by individual lot number. Test results will be maintained by sample number and by individual lot number.

\*This Bulletin supersedes SB 74B-1375-, 19 October 1971.

**7. Test Procedure.** The function test of this item consists of a plate detonation test only. A 20 gram sample of the explosive shall be taken from each of the 24 samples selected. Care shall be exercised when opening the plastic bag on the demolition charges. Samples from each individual block having a 2x2 inch :s section (M3 and M5A1) will be obtained by cutting a 0.2 inch slice from the block. Samples from each individual block having a 1x2 inch cross section (Mi12) will be obtained by cutting a 0.4 inch slice from the block. In either case, the sample thus obtained will weigh 20 grams Each 20 gram sample will then be pressed into a paper tube 1 inch long, 1 inch inside diameter and with a wall thickness of approximately 0.01 inch. One end of this charge will be made flat and flush with the end of the paper tube. This end of the charge will be placed in contact with a hot rolled, mild steel plate at least 4 inches square and 0.250 inch plus 0.010 inch or minus 0.006 inch thick. The area of the plate which will be in contact with the charge will be greased lightly with a mineral jelly or suitable substitute before the charge is placed on the plate. The charge shall be pushed firmly onto the plate to assure good contact between the charge and the plate. A hole 0.25 inch in diameter and 0.50 to 0.75 inch deep will be made in the top surface of the charge. This surface will then be made as flat as possible and as close to flush with the top edge of the paper tube as possible. A Cap, Blasting. Special, Electric will be inserted into the hole and fired from a protected position. The plate shall be resting on a flat bed of sand at least 4 inches, deep when the charge is initiated. After firing, the plate will then be inspected for perforation of the charge and results recorded

**8. Observations.** All observations of nonstandard conditions and malfunctions, especially those not included among the defects listed in paragraphs 10 and 11, should be described in full detail. Pictorial evidence of nonstandard conditions, whenever pertinent and practical, should be included. The observations to be reported are all instances of any of the following:

- a. In nonstandard marking state whether misleading, incomplete, or unidentifiable.
- b. Where rust or corrosion appear give location and extent.
- c. The occurrence of any of the nonstandard conditions or malfunctions classified as defects in paragraphs 10 and 11.
- d. The occurrence of any nonstandard conditions or malfunctions not classified as defects in paragraphs 10 and 11, but which in the opinion of responsible personnel merits consideration.

**9. Classification of Defects.** Defects observed during L inspection and testing will be classified in accordance with paragraphs 10 and 11 and SB 742-1. Any defects observed which are not listed in paragraphs 10 and 11 will be fully described and reported 'with the DAC Quality Assurance Specialist (Ammunition Surveillance's) recommendation as to classification.

**10. Nonfunctioning Defects. Minor.** a. Cut, puncture, or tear in plastic covering of subject item.  
b. Marking incorrect or misleading.

**11. Functioning Defects.** a. Major. Explosive fails to bulge, penetrate or perforate the plate in detonation test.

b. *Minor.* Explosive bulges or penetrates, but does not perforate the plate in detonation test.

**12. Evaluation.** Functional and nonfunctional codes will be recommended in accordance with the following criteria and an interim condition code will be assigned. A lot will be classified Condition Code J and reported if one critical defect is observed.

*a. Nonfunctional Code*

(1) Code A. A lot not classified as Code J shall qualify for Code A if it meets the following requirements on inspection of 24 samples by attributes.

- (a) Not more than 1 major defect.
- (b) Not more than 2 minor defectives.

(2) Code R A lot not classified as Code J or Code A .shall. qualify. for Code B if it meets the following requirement on inspection of 24 samples by attributes.,

- (a) Not more than 3 major defectives.
- (b) Not more than 5 minor defectives.

(3) Code D. A lot not classified as Code J, Code A, or Code B shall be Code D.

*b. Functional Codes*

(1) Code A. A lot not classified as Code J shall qualify for Code A if it meets the following requirements in the test of 24 samples.

- (a) Not more than 1 major defective.
- (b) Not more than 2 minor defectives.

(2) Code B A lot not classified as Code J or Code A shall qualify for Code B if it meets the following requirements in the test of 24 samples

- (a) Not more than & major defectives.
- (b) Not more than 5 minor defective.

(3) Code D. A lot not classified as Code J, Code A, or Code B shall be Code D.

**13. Records and Reports.** Function test results will be recorded and reported as outlined in SB 742-L.

By Order of the Secretary of the Army:

Official:

**PAUL T. SMITH**  
**Major General, United States Army**  
**The Adjutant General**

**FRED C. WEYAND**  
**General, United States Army**  
**Chief of Staff**

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