

DEPARTMENT OF THE ARMY SUPPLY BULLETIN

FIRING DEVICE, DEMOLITION: M1 SERIES,
PRESSURE TYPE SURVEILLANCE
FUNCTION TEST

Headquarters, Department of the Army, Washington, D.C.
19 October 1971

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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 firing devices 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.

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 forwarded direct to Director, US Army

Materiel Systems Analysis Agency, ATTN AMXSY-RM-WM, 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 firing devices 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

Groups with lot numbers assigned 50

Groups without lot numbers assigned 100

For confirmation investigation as directed

5. Sample Selection. Sample firing devices will be selected in accordance with the provisions of SB 742-1 except as follows

a. If lot numbers have been assigned, not more

than 10 firing devices may be selected from one wooden box.

b If lot numbers have not been assigned, then a sample of 20 firing devices from each of five wooden boxes will be selected from each group.

6. Preparation for Test. Number the firing devices 1 through 50 if from a group with a lot number assigned. or 1 through 100 if from a group to which a lot number has not been previously assigned, and identify them as to the box from which they were drawn.

7. Test Procedure.

a. Remove the coupling base protector cup and screw the coupling base into the firing mechanism.

b. Secure the firing device in the holder which will then be positioned on the device, testing, pressure, push and pull in pounds, APE 1907.

c. Remove the safety fork.

d. Gently withdraw the safety pin by pulling on its cord.

e. Function the firing device by gradually applying pressure with the pressure end of the tension recording scale.

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 as follows:

a. Pressure (to the nearest one-half pound) required to function the firing device.

b. All instances of any of the following:

(1) In nonstandard marking state whether misleading, incomplete or unidentifiable.

(2) Where rust or corrosion appear give location and extent.

(3) The occurrence of any nonstandard conditions or malfunctions classified as defects in paragraphs 10 and 11.

(4) 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 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 ammunition inspector's recommendation as to classification.

10. Nonfunctioning Defects.

a. Major

(1) Either of the following components missing

(a) Safety pin.

(b) Safety fork.

(2) Major damage such as firing pin release pin found broken or breaks during inspection.

(3) Major rust.

(4) Major corrosion.

(5) Use of the firing device is precluded because the coupling base cannot be properly assembled to the device.

b. Minor

(1) Safety pin not adequately secured.

(2) Cord from safety pin or safety clip missing or comes off.

(3) Protector cup missing.

(4) Minor rust.

(5) Minor corrosion.

(6) Marking misleading or unidentifiable.

11. Functioning Defects.

a. Critical. Firing device functions when subjected to 10 pounds of pressure.

b. Major

(1) Firing device fails to function when subjected to 40 pounds of pressure.

(2) Striker releases but primer fails to fire.

(3) Primer fires low order, would have resulted in a dud

NOTE

Whenever the frequency of "how order primer" is such that classifying "low order" as a major defect would place the lot in Code D, the lot should be retested with blasting caps of known good quality assembled to the coupling base to determine whether these "low order primers" can or cannot detonate blasting caps

12. Evaluation. Functional and nonfunctional codes will be recommended in accordance with the following criteria and the interim condition code will be assigned in accordance with SB 700-1300-1 A lot will be classified Condition Code J and reported if one critical defect is observed.

a. For groups with lot numbers assigned (N = 50)

(1) *Nonfunctional codes.*

a. Code A. A lot not classified as Code J shall qualify for Code A if it meets the following requirements on inspection of 50 firing devices by attributes.

1 Not more than 2 major defectives

2 Not more than 4 minor defectives

b. Code B. A lot not classified as Code J or Code A shall qualify for Code B if it meets the following requirements on inspection of 50 firing devices by attributes

1. Not more than 7 major defectives

2 Net more than 10 minor defectives

c. Code D. A lot not classified as Code J, Code A, or Code B shall be Code D

(2) *Functional codes*

a Code A. A lot not classified as Code J shall qualify for Code A if it meets the following requirements in the test of 50 firing devices.

- 1 Not more than 2 major defectives.
- 2 Not more than 4 minor defectives.

b 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 50 firing devices.

1. Not more than 7 major defectives.
- 2 Not more than 10 minor defectives.

c Code D. A lot not classified as Code J, Code A, or Code B shall be Code D

b. For groups without lot numbers assigned (N =100)

(1) Nonfunctional codes

a Code A. A lot not classified as Code J shall qualify for Code A if it meets the following requirements on inspection of 100 firing devices by attributes

1. Not more than 5 major defectives.
2. Not more than 9 minor defectives.

b Code B A lot not classified as Code J or Code

A shall qualify for Code B if it meets the following requirements on inspection of 100 firing devices by attributes.

1. Not more than 14 major defectives.
2. Not more than 21 minor defectives.

c Code D. A lot not classified as Code J, Code A, or Code B shall be Code D.

(2) *Functional codes*

a Code A. A lot not classified as Code J shall qualify for Code A if it meets the following requirements in the test of 100 firing devices.

1. Not more than 5 major defectives.
2. Not more than 9 minor defectives.

b 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 100 firing devices

1. Not more than 14 major defectives.
2. Not more than 21 minor defectives

c 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 742-1.

By Order of the Secretary, of the Army:

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ARNG: None

USAR: None

For explanation of abbreviations used, see AR 310-50.

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