

TECHNICAL MANUAL

OPERATOR'S AND UNIT MAINTENANCE MANUAL

(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)

FOR

81MM MORTAR TRAINING DEVICE:

81MM SABOT (INERT) M1

AND

22MM SUB-CALIBER PRACTICE CARTRIDGE

M744, M745, M746, AND M747

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Operator's and Unit Maintenance Manual
 (Including Repair Parts and Special Tools List)
 FOR
 81MM MORTAR TRAINING DEVICE:
 81MM SABOT (INERT) M1
 AND
 22MM SUB-CALIBER PRACTICE CARTRIDGE
 M744, M745, M746, AND M747

REPORTING OF ERRORS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms) to Commander, U.S. Army Armament, Munitions and Chemical Command, ATTN: AMSMC-MAY-T(D), Picatinny Arsenal, NJ 07806-5000. A reply will be furnished directly to you.

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CHAPTER 1**INTRODUCTION**

Section I. GENERAL**1-1. Scope**

This publication provides operator and unit personnel with instructions for maintenance and use of the training device for 81mm Mortars (all models); 81mm Sabot (INERT), M1; and 22mm sub-caliber practice cartridge, M744, M745, M746 and M747.

1-2. Forms, Records, and Reports

a. General. Maintenance forms, records, and reports which are to be used by maintenance personnel at all levels are listed in and prescribed by DA PAM 738-750.

b. Field Reports of Accidents. Accidents involving injury to personnel or damage to materiel are reported on DA Form 285 in accordance with instructions in AR 385-40.

c. Report of Damaged or Improper Shipment. Damaged or improper shipments will be reported immediately using SF Form 364, Report of Discrepancy (ROD), AR 735-11-2 and/or SF 361, Discrepancy in Shipment Report, and AR 55-38.

d. Fire Reports. A fire report will be prepared on all fires, or explosions followed by fires, which result in injury, loss of life, or property damage (repair or replacement cost of \$100 or more) at all DA installations. Property includes Army equipment, materials, structures, plants, systems, timber or grassland or other property. Motor vehicles or aircraft damaged while in use are exempted from this report. For further information, refer to AR 420-90. Reports of fire, or explosion followed by fire, involving ammunition or explosives are made in addition to the reports specified in AR 385-40.

Section II. DESCRIPTION AND DATA 1-3. Description

a. General. The 81mm Sabot (INERT) M1 (fig. 1-1) is designed to fire a 22mm subcaliber practice cartridge M744, M745, M746 or M747 (charges 1, 2, 3, or 4, respectively) (fig. 1-2) as training device in all model 81mm mortars. The Sabot with 22mm sub-caliber practice cartridge provides realistic mortar firing training at distances which correspond to range fire distances in the ratio of 1 to 10. The subcaliber device can be fired using standard mortar and sighting and fire control equipment and a special firing table (fig. 2-8) in the same manner as standard service mortar ammunition.

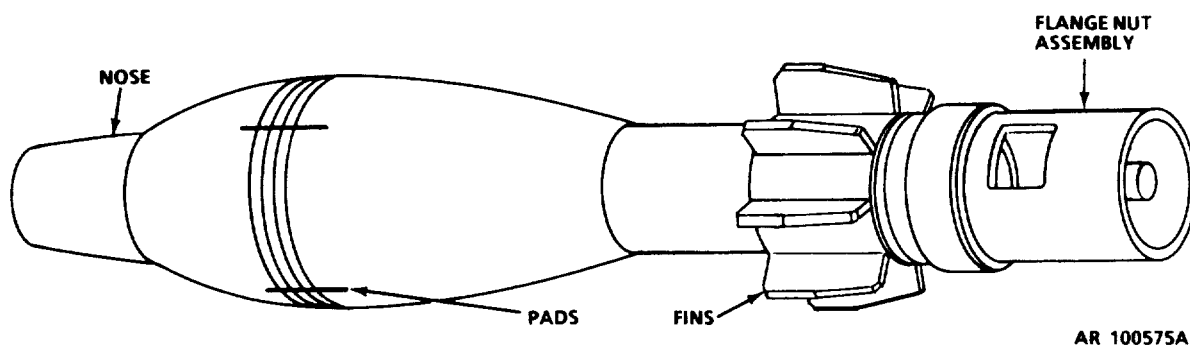


Figure 1-1. 81 mm Sabot, M1.