

TM 9-1305-201-20&P

TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE MANUAL

(INCLUDING REPAIR PARTS AND

SPECIAL TOOL LIST)

FOR

SMALL ARMS AMMUNITION TO

30 MILLIMETER INCLUSIVE

(FSC 1305)

This copy is a reprint which includes current pages from changes 1 through 12.

HEADQUARTERS, DEPARTMENT OF THE ARMY
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HEADQUARTERS
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**UNIT MAINTENANCE MANUAL
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(FSC 1305)**

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

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WARNINGS

DO NOT ROLL, DROP, THROW OR SUBJECT AMMUNITION TO ROUGH HANDLING.

AVOID INJURY FROM SHARP EDGES WHEN CUTTING AND HANDLING METAL STRAPPING. THE END OF THE BAND MAY FLY UP SUDDENLY WHEN TENSION IS RELEASED.

TO PREVENT INJURY, RELEASE TENSION BY PRESSING DOWN ON TOP OF BOX WHILE CUTTING STRAPS ON SIDE OF BOX. CUT LEAD SEAL WIRE WITH PLIERS AND REMOVE. TURN CATCH AND OPEN HASP, OR PULL OUT ON SPRING-LATCH TO RELEASE. LIFT BOX TOP TO OPEN. ON SPRING-LATCHED BOXES, NOTE POSITION OF TOP FOR GUIDANCE IN REPACKING. REMOVE TOP PADDING/FILLER (IF ANY) FROM BOX. REMOVE INNER PACK(s).

PRIMERS SHALL BE CLEANED ONLY WITH RAGS DIPPED IN ALCOHOL OR ACETONE. PRIMERS SHALL BE COVERED WITH FIBER CONTAINER CAP DURING CLEANING, TOUCH-UP OF AMMUNITION.

ELECTRICALLY-PRIMED AMMUNITION CAN FIRE IF EXPOSED TO HIGH-POWER RADIO FREQUENCY FIELDS. AVOID CONTACT OF ANY KIND WITH THE PRIMER, ESPECIALLY METAL OBJECTS. SEE TM 9-1300-206 FOR AMMUNITION HANDLING INSTRUCTIONS.

ANY AMMUNITION FOUND WITH EXPOSED EXPLOSIVE SHOULD BE DISPOSED OF IN THE PRESCRIBED MANNER, AS DIRECTED IN APPLICABLE STANDARD OPERATING PROCEDURES.

CHAPTER 1

INTRODUCTION

1-1. Scope

This manual, one of a series on maintenance and service of ammunition, contains the information required to support organizational level maintenance of small arms ammunition ranging from 22 caliber through 30 millimeter and shotgun ammunition from .410 to 10 and 12 gage. Federal Supply Class 1305 inclusive. Operating instructions are contained in the appropriate weapons manuals.

1-2. Forms, Records and Reports

a. Authorized Forms. Forms required by organizational maintenance personnel are listed in appendix A and in DA Pam 25-30. Information on applicability and instructions for completing forms are published in TM 38-750.

h. Field Report of Accidents. Accidents involving injury to personnel or damage to materiel will be reported on DA Form 285 in accordance with AR 385-40. Malfunctions will be reported in accordance with AR 75-1.

c. Report of Damaged or Improper Shipment. Materiel received in damaged or otherwise unsatisfactory condition because of deficiencies in preservation, packaging, marking, loading, storage, or handling will be reported on SF Form 364 in accordance with AR 735-11-2. Reports of improper shipment or damage caused by transportation discrepancies will be reported on SF Form 361 in accordance with AR 55-38.

1-3. Destruction of Ammunition to Prevent Enemy Use

Destruction of munitions when subject to capture or abandonment will be undertaken by the user only when, in judgement of the unit commander concerned, such action is necessary in accordance with orders of, or policy established by, the Army commander.

1-4. Safety

Observe all safety regulations, local standing operating procedures and precautions generally applicable to ammunition. Disassembly of explosive components without specific authorization is prohibited. The U.S. Nuclear Regula-

tory Commission set standard/conditions, and issue licenses for the safe use, storage and possession of radioactive material. Current copies of title 10, parts 19, 20, and 21 as well as licensed operating procedures are maintained by the HQ IOC Health Physicist and may be examined at HQ IOC. Rock Island, IL 61299-6000. The NRC source material license for the radioactive material contained in the manual is maintained by HQ IOC, Rock Island, IL 61299-6000. Users of this material may request further information from: Commander, U.S. Army IOC, ATTN: AMSIO-DMW (RPO), Rock Island, IL 61299-6000. The cartridge 25MM APFSDS-T M919 utilizes Depleted Uranium (DU) that emits very low level radiation. Care must be taken when handling this round to avoid direct contact with the DU penetrator. Loss or unauthorized firings of M919 rounds must be reported through the chain of command as soon as discovered. All transmissions regarding incidents of this nature must be marked FOUO (For Official Use Only). IOC Headquarters must be notified within 24 hours of discovery. Report to Commander, IOC/ACALA, ATTN: AMSIO-DMW (RPO), Rock Island, IL 61299-6000 DSN: 793-0338/2969. Commercial: (309) 782-0338/2969. After normal duty hours contact SDO (Staff Duty Officer) DSN: 793-6001. Commercial: (309) 782-6001.

1-5. Care and Handling

a. Small-arms ammunition is not dangerous to handle. However, no ammunition should be subjected to rough treatment. This ammunition is packed to withstand conditions ordinarily encountered in the field; moisture-resistant containers and suitable packing boxes are used to provide protection for shipment and storage. Care must be taken to prevent these packings from becoming broken or damaged. All broken packings must be repaired immediately with careful attention given to the transfer of all markings to the new parts.

b. Boxes should be opened carefully as they are to be used as long as they are serviceable.

c. Ammunition boxes should not be opened until the ammunition is required for use. Ammunition removed from airtight containers, particularly in damp climates, is apt to corrode, thereby rendering the ammunition unserviceable.

d. Cartridges should be protected from high temperatures and the direct rays of the sun for any considerable length of time. Such exposure is likely to affect the firing qualities of the cartridges. The combination of high temperatures and a humid atmosphere is particularly detrimental to the stability of the propellant powder and to tracer mixture in tracer ammunition.

C. Cartridges should be protected from sand, mud, moisture, frost, snow, ice, oil, grease, or other foreign matter. If cartridges get wet or dirty, they should be wiped off at once. If verdigris or light corrosion forms on cartridges, it should be wiped off with a clean dry cloth. Cartridges should not be polished to make them look better or brighter.

f. The use of oil or grease on small-arms cartridges is prohibited. Oil or grease might cause injurious abrasives to collect in automatic weapons and produce excessive and hazardous chamber pressures when fired. Some specific rounds of ammunition may require lubrication with dry film lubricant to rectify specific operational problems. This dry film lubricant is not to be used on ammunition items other than those specifically identified by bulletins and is to be applied only as directed.

g. Whenever practical, small-arms ammunition should be stored under cover. This applies particularly to tracer and shotgun ammunition. Tracer ammunition is subject to rapid deterioration if it becomes damp. When it is necessary to store this ammunition in open storage, raise it on dunnage at least 6 inches from the ground and cover it with a double thickness of paulin, leaving enough space for the circulation of air. Where practical, dunnage strips should be placed under each layer of ammunition boxes to prevent mildew and rot. Suitable trenches should be dug to prevent water from running under the pile.

h. Ammunition, when stored, should be segregated by caliber, type, and ammunition lot.

i. When only a part of a box of ammunition is issued or used, the ammunition remaining in the box should be protected by firmly fastening the cover.

j. Ammunition removed from the original packing should be tagged or marked so as to preserve the Ammunition lot number and model number. Such identification is necessary to prevent other serviceable ammunition being classified as unserviceable through loss of identity.

k. Electrically-printed ammunition can be fired if exposed to High-Power Radio frequency fields. Avoid contact of any kind with the primer, especially metal objects.

l. Evidence of Depleted Uranium (DU) corrosion is visible in the form of a yellowish or white powder or stain seen on the outer surfaces of the projectile and can become a hazard to personnel. If corroded (yellow or white corrosion) APFSDS-T M919 ammunition is encountered, ammunition must be handled with gloves. The ammunition must be placed in the original pack, tagged unserviceable, and returned through normal supply channels. Avoid getting DU corrosion on hands. Wash hands before eating or touching face. Dispose of gloves in accordance with AK 385-11.

m. In general, when handling any material contaminated by DU avoid touching the corrosion by wearing gloves. Regardless if gloves are worn always wash hands before eating or touching face.

n. When handling sabot ammunition with an exposed penetrator (with no indication of corrosion, M919 DU round) wear gloves. Regardless if gloves are worn, always wash hands before eating or touching face. The gloves do not have to be disposed of as radioactive waste.

o. Exposure to 25MM APFSDS-T M919 ammunition results in exposure to low level radiation. The amount of radiation the soldier receives is proportional to the amount of time spent in the vicinity of APFSDS-T M919 ammunition. Although the radiation exposure received is low and considered safe, avoid unnecessary contact with packaged APFSDS-T M919 ammunition, within mission constraints.