

TECHNICAL MANUAL

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL
(Including Repair Parts and Special Tools List)

FOR

ARTILLERY AMMUNITION FOR GUNS, HOWITZERS,
MORTARS, RECOILLESS RIFLES AND
40MM GRENADE LAUNCHERS

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HEADQUARTERS, DEPARTMENT OF THE ARMY

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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. You may mail, e-mail, or FAX your response. Mail your letter, or DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to Commander, US Army, TACOM, Armament Research, Development and Engineering Center, ATTN: AMSTA-AR-LSB, Picatinny Arsenal, New Jersey 07806-5000, E-mail address is LSB@ PICA.ARMY.MIL. FAX number is Commercial (201)-724-4633, DSN 880-4633. A reply will be furnished directly to you.)

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“This manual supersedes TM 9-1300-251-34, 30 January 1975, including all changes.

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CHAPTER 1 INTRODUCTION

Section I. GENERAL

1-1. Scope

a. This is one of a series of manuals on maintenance of artillery ammunition for guns, howitzers, mortars, recoilless rifles and 40-MM grenade launchers. Information in this manual is limited to the responsibilities of direct and general support maintenance personnel.

b. Operating instructions and operator-level maintenance are covered in the weapon manuals listed in appendix A. Organizational level maintenance is covered in TM 9-1300-251-20, which also contains the Maintenance Allocation Chart (MAC). Authorized procedures for each level of maintenance, including direct and general support, are specified in the MAC.

1-2. Forms, Records, and Reports

a. Forms generally applicable to units maintaining this materiel are listed in appendix A. A current listing of all forms is maintained in DA Pam 25-30. DA Pam 738-750 contains instructions on applicability and completion of forms.

b. Ammunition Data Cards will be annotated to reflect major maintenance operations in accordance with TM 9-1300-250.

c. A record should be kept of each inspection job undertaken on an Ammunition Condition Report (ACR).

Section II. DESCRIPTION AND DATA

1-3. General

Description and data on this ammunition are contained in TM 9-1300-251-20. Refer to the applicable operator and organizational maintenance manuals for detailed operating instructions.

Section III. SAFETY, CARE, AND HANDLING

1-4. General

a. For general information on safety, care, and handling of ammunition, refer to TM 9-1300-206, TM 9-1300-250, and TM 9-1300-251-20.

b. Specific information on safety, care, and handling is contained in the applicable

operator's and organizational maintenance manuals.

c. Specific safety precautions, warnings, and cautions relating to the maintenance operation are incorporated with the maintenance procedures for the ammunition item.

CHAPTER 2
TOOLS AND EQUIPMENT

2-1. General

a. Tools and equipment having general application to this materiel and used by direct support and general support organizations are authorized for issue as required by tables of allowances (TA) and tables of organization and equipment (TOE).

b. Tools and equipment required for ammunition maintenance will usually be available in the direct support tool set (SC 4940-95-CL-A11) and the general support shop equipment (SC 4925-95-CL-A03) or another tool set authorized under TOE'S for the organization.

2-2. Repair Parts and Special Tools

Refer to appendix C for the repair parts and special tools list.

2-3. Fabricated Tools and Equipment

a. General. Local fabrication of tools and equipment is only permitted when required to perform an authorized maintenance function. When approved drawings and specifications (see b and c below) are not available, design must meet all safety requirements and be approved by local safety officer.

b. Lifting Ring-Torque Wrench Adapter. Obtain a standard 1-1/4-inch socket, with a 1/2-inch drive and cut out according to figure 2-1.

c. Paint Rack for Fixed Ammunition. Construct an improvised paint rack(s), using sturdy and appropriate materials as described in table 2-1, according to figure 2-2. Use hand- and/or power-saws to cut lumber to specified dimensions.

Table 2-1. Material Required for Painting Rack

Part No.	Quantity Required	Title	Basic size
1	26	Rubber pad.	2-3/4 in. x 1/2 in. x 1/16 in.
2	1	Notched support.	2 x 6, 12 ft long
3	2	Notched support.	2 x 3's, 12 ft long
4	1	Notched support.	2x 4, 12 ft long
5	2	Notched support.	2 X 6's, 12 ft long
6	6	Vertical support.	12x6's, 2 ft 10-1/2 in. long
7	3	Upper support.	
8	6	Angle support.	2 x 6 (see fig. 2-2)
9	3	Base support.	2 x 6's, 5 ft long
10	6	Upright long.	1 x 4's, 2 ft 5-3/4 in. long approx
11	2	Step, long.	2 x 6's, 9 ft 9 in. long approx
12	4	Step, short.	2 x 6's, 4 ft 10 in. long approx
13	1	Stiffener.	2 x 6, 3 ft 8-1/2 in. approx
14	3	Cross support.	1 x 6, 2 ft 7-1/2 in. long approx
15	1	Nailer.	2 x 4, 12 ft long
16	1	Bottom support.	2 x 6, 12 ft long
17	6	Upright, short.	1 x 4's, 2 ft 4-1/8 in. long approx
18	2	Lateral support.	1 x 6's, 12 in. long

NOTE

Six (6) penny nails required when nailing items 9, 14, 17 and 18. Eight (8) penny nails to be used in all other nailing requirements.

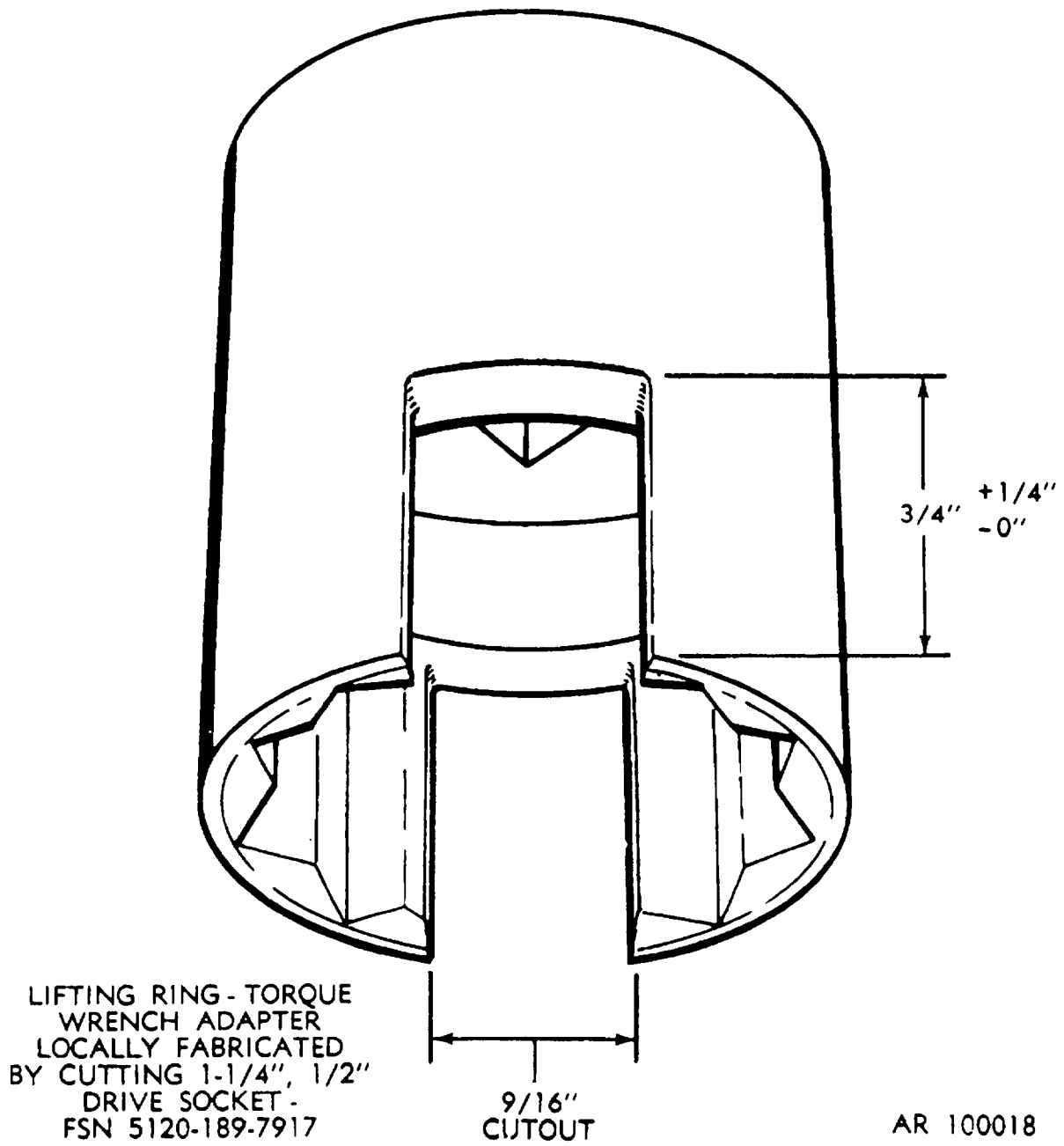


Figure 2-1. Lifting plug - torque wrench adapter.

2-4. Special Handling Equipment for Ammunition.

Refer to Appendix F for special handling equipment for ammunition.