

TECHNICAL MANUAL

OPERATOR'S MANUAL,
CARTRIDGE, 40-MM:
TACTICAL CS, M651
(NSN 1310-00-849-2083)

HEADQUARTERS,
DEPARTMENT OF THE ARMY

JANUARY 1975

WARNING

Observe all the safety precautions in this manual. They can prevent severe injury and exposure to extremely irritating effects of CS clouds to you and your buddies.

TECHNICAL MANUAL }
No. 3-1310-243-10 }

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DEPARTMENT
OF THE ARMY
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*This manual supercedes TM 3-1310-243-10, 28 September 1968, including all changes.

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CHAPTER 1 INTRODUCTION

Section I. GENERAL

1-1. Purpose and Scope

This manual is for your use in operating and maintaining the M651 tactical CS 40-mm cartridge.

1-2. Accidents, Malfunctions, and Forms

- a. Accidents involving injury to personnel or damage to material will be reported as specified in AR 385-40.
- b. Accidents or malfunctions in combat or training will be reported as specified in AR 75-1.
- c. Maintenance forms and records are explained in TM 38-750.

1-3. Recommending Improvements

You can help to improve this manual by recommending improvements. Mail your comments to Commander, Edgewood Arsenal, Attn: SAREA-DE-ET, Aberdeen Proving Ground, Md 21010, using DA Form 2028 (Recommended Changes to Publications and Blank Forms) or a letter. A reply will be sent direct to you.

1-4. Use

Your M651 cartridge can be used in combat against any target vulnerable to its CS agent. Fire the cartridge from the M79 grenade launcher or the M203 grenade launcher which attaches to the M16A1 rifle. This cartridge is especially effective when fired into an enclosed area. The projectiles will penetrate window glass or up to 19 millimeters (3/4 inch) thick pine wood at 200 meters (656 feet) and release CS after penetration. The projectiles will also function against other materials such as earth, gravel, brush, sandbags, and bamboo. You can engage targets at ranges up to 400 meters (1312 feet).

Section II. DESCRIPTION AND DATA

1-5. Description

a. *Cartridge.* The M651 cartridge (fig. 1-1) is similar in appearance to other 40-mm cartridges but has a flat nose. Two ridges act as projectile rotating bands when the round is fired. The cartridge case contains a percussion primer and has six equally spaced notches located around the cartridge case base.

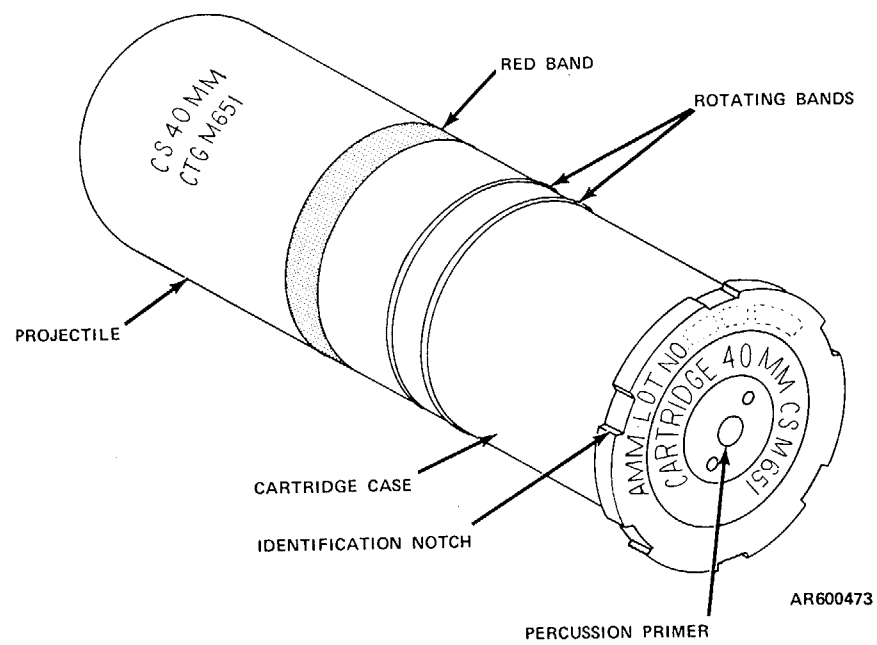


Figure 1-1. M651 cartridge exterior view.

b. Packaging. Six cartridges are packed in a bandolier. The bandolier (fig. 1-2) consists of six molded cups with flaps and a web carrying strap.

c. Packing. Your bandolier is packed in one compartment of a four-compartment fiberboard box. An instruction card is packed with each bandolier. A filled fiberboard box containing four bandoliers (24 cartridges) is wrapped in vapor barrier material and is packed in a wirebound wood box.