WARNINGS
Do not pick up, carry, or hang the XM58 CS pocket grenade by the safety pin, pull ring, or safety lever.

When using the XM58 CS pocket grenade, never place any portion of the hand over the emission hole at the base of the grenade.

A field protective mask must be carried, and worn if necessary, when employing the XM58 CS pocket grenade.

Personnel not wearing a field protective mask should remain upwind of the firer when XM58 CS pocket grenades are being employed.

Do not handle misfired or damaged XM58 CS pocket grenades; notify Explosive Ordnance Disposal (EOD) personnel of all misfired or damaged grenades. Give them the location and quantity of misfired or damaged grenades.

Do not pick up any functioned XM58 CS pocket grenades.
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SECTION I
INTRODUCTION

1. Scope
These instructions are for use by the operator. They apply to the Grenade, Hand: Riot, Pocket, CS,XM58.

2. Record and Report Forms
   a. Report accidents involving injury to personnel or damage to materiel as specified in AR 385-40.
   b. Report accidents or malfunctions in combat or training as specified in AR 700-1300-8.
   c. Department of the Army forms and procedures used for equipment maintenance will be those prescribed by TM 38-750.
   d. The reporting of errors, omissions, and recommendations for improving this manual by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications) and forwarded direct to Commanding Officer, Edgewood Arsenal, ATTN: SMUEA-TSE-TP, Edgewood Arsenal, Md. 21010.

3. Use
The XM58 CS pocket grenade (fig. 1) is small, lightweight, and designed for pocket carry. It is used to assist in flushing the enemy from his position. (The capability of CS is described in TM 3-215.)

Figure 1. XM58 CS pocket grenade.
4. **Description**

The XM58 CS pocket grenade consists of a two-piece body assembly (1, fig. 2) which contains the CS-pyrotechnic mixture filling (2). One emission hole (10) is centrally located in the bottom of the body assembly and is covered with pressure-sensitive tape (11). A nut (9) retains one M201A1E1 fuze in the top of the body assembly. The fuze consists of a safety lever (15), striker (8), striker spring (7), pull ring (14), safety pin (13), primer (6), fuze body (12), and delay-ignition train. The delay-ignition train consists of first-fire mixture (5), delay mixture (4), and ignition mixture (3).

![Figure 2. XM58 CS pocket grenade, cross-section view.](image)

5. **Tabulated Data**

<table>
<thead>
<tr>
<th>Type</th>
<th>Irritant agent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>3-5/8 in.</td>
</tr>
<tr>
<td>Diameter</td>
<td>1-5/16 in.</td>
</tr>
<tr>
<td>Weight</td>
<td>0.26 lb.</td>
</tr>
<tr>
<td>Filling</td>
<td>CS-pyrotechnic mixture</td>
</tr>
<tr>
<td>Weight of filling</td>
<td>40 grams</td>
</tr>
<tr>
<td>Throwing distance (approx.)</td>
<td>45 meters (147.6 ft.)</td>
</tr>
<tr>
<td>Ignition delay time</td>
<td>0.7 to 2 sec.</td>
</tr>
<tr>
<td>Burning time</td>
<td>8 to 28 sec.</td>
</tr>
<tr>
<td>Fuze</td>
<td>M201A1E1</td>
</tr>
</tbody>
</table>

6. **Identification**

   a. **Shipping Container.** The Federal stock number, nomenclature, weight, cubage, loading date, and lot number are stenciled on the shipping container. One red stripe is painted on a gray background on opposite corners of the shipping container.

   b. **XM58 CS Pocket Grenade.** The body of the grenade is gray. A 1/4-inch wide red band encircles the grenade body and indicates that it is filled with a nonpersistent-effect riot-control agent. The munition nomenclature is marked in red on the grenade body above the red band.

7. **Packaging and Packing**

One hundred XM58 CS pocket grenades are individually packaged in paperboard cushioning material and sealed in a barrier bag. Ten grenades are packed in an intermediate fiberboard box. Ten intermediate fiberboard boxes are packed in a wood box.
Warning
Do not pick up, carry, or hang the XM58 CS pocket grenade by the safety pin, pull ring, or safety lever.

Warning.
When using the XM58 CS pocket grenade, never place any portion of the hand over the emission hole at the base of the grenade.

Warning.
A field protective mask must be carried, and worn if necessary, when employing the XM58 CS pocket grenade.

Warning.
Do not pick up any functioned XM58 CS pocket grenades.

Warning.
Personnel not wearing a field protective mask should remain upwind of the firer when XM58 CS pocket grenades are being employed.

Warning.
Do not handle misfired or damaged XM58 CS pocket grenades; notify Explosive Ordnance Disposal (EOD) personnel of all misfired or damaged grenades. Give them the location and quantity of misfired or damaged grenades.

8. Operating Procedure
Operating procedures for the XM58 CS pocket grenade are as follows:

a. Cradle the grenade in the throwing hand. Hold the safety lever against the grenade body with the palm of the hand.

b. Use the free hand to remove the safety pin with a twisting, pulling motion on the pull ring.

c. Throw the grenade at the target. When used against personnel in the open, the point of impact should be upwind of the target area.

9. Functioning
The XM58 CS pocket grenade fuze is cocked and restrained from functioning by the safety pin and the safety lever. When the safety pin is withdrawn and the safety lever released, a sequence of operations is initiated as follows:

a. The striker driven by its striker spring hits the percussion primer.

b. The primer emits a small flame that ignites the fuze first-fire mixture, which in turn ignites the 0.7 to 2 second delay mixtures.

c. The delay mixtures ignite the ignition mixture, which in turn ignites the CS-pyrotechnic mixture.

d. Pressure in the grenade body caused by the ignited CS-pyrotechnic mixture blows the pressure-sensitive tape off the emission hole, and the CS cloud emits for 8 to 28 seconds.

10. Hangfire and Misfire

a. Hangfire. A hangfire is a temporary failure or delay in the action of a primer, igniter, or propelling charge.

b. Misfire. A misfire is a failure to fire. All XM58 CS pocket grenades that exceed a 30-second delay in firing are considered misfires.
11. Shipment
The XM58 CS pocket grenade is classified by the Department of Transportation (DOT) as Explosive, Class C, Poison C Tear Gas.

12. Storage
The XM58 CS pocket grenade is classified for storage as follows:

- Hazard Class (Quantity distance)... 1
- Chemical Group......................... B
- Compatibility Group.................... A

13. Destruction to Prevent Enemy Use
The XM58 CS pocket grenade will be destroyed by burning when it is in danger of being captured by the enemy. Authority to destroy the XM58 CS pocket grenades must be obtained from the responsible commander. Detailed procedures for destroying ammunition are contained in TM 9-1300-206.
<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR 385-40</td>
<td>Accident Reporting and Records</td>
</tr>
<tr>
<td>AR 700-1300-8</td>
<td>Malfunctions Involving Ammunition and Explosives</td>
</tr>
<tr>
<td>TM 3-215</td>
<td>Military Chemistry and Chemical Agents</td>
</tr>
<tr>
<td>TM 9-1300-206</td>
<td>Care, Handling, Preservation, and Destruction of Ammunition</td>
</tr>
<tr>
<td>TM 38-750</td>
<td>Army Equipment Record Procedures</td>
</tr>
</tbody>
</table>
By Order of the Secretary of the Army:

W. C. WESTMORELAND,
General, United States Army,
Chief of Staff.

Official:

KENNETH G. WICKHAM,
Major General, United States Army,
The Adjutant General.

Distribution:

Active Army:

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|----------------|-----------|------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------------|--------------|-------------|----------|-------------------------------|---------|----------------|-------------|----------------|-------------|------|---------------|-------------|--------------|-------------|--------|----------|--------|
|                |           |            |               |               |               |               |               |               |               |            |              |             |          | Arslenals (3) except Edgewood Arsenal (50) | FG (5) | Ft Knox FLDMS (10) | Units org under fol TOE: (1 copy each) |
|                | POE (1)   | Instl (2)  | USATC (1)     | EAMTMTS (1)   | WAMTMTS (1)   | MOTBA (1)     | MOTBY (1)     | MOTSK (1)    | MOTSU (1)         | USAAPSA (25) |                     |             |          |                                               |        |                                                       |
|                |           |            |               |               |               |               |               |               |               |            |              |             |          |                                               |        |                                                       |

NG: State AG (3).

USAR: None.

For explanation of abbreviations used, see AR 320-50.