

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR'S MANUAL

LAUNCHER AND GRENADES, SMOKE: HC, M226

Headquarters, Department of the Army, Washington, D. C.

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1. Scope. These instructions are for use by the operator. They apply to Launcher and Grenades, Smoke: HC, M226.

2. Record and Report Forms. a. Report accidents involving injury to personnel or damage to material as specified in AR 38540.

b. Report accidents or malfunctions in combat or training as specified in AR 75-1.

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 Blank Forms) and forwarded direct to Commander Edgewood Arsenal, Attn: SAREA-DE-ET, Aberdeen Proving Ground, MD 21010.

3. Description. The M226 grenade launcher (fig. 1) consists of a cylindrical plastic tube which houses one

M225 cartridge, and a two-piece sabot assembly (cover and holder) which contains two AN-M8 HC-filled smoke grenades (fig. 2). The M226 grenade launcher provides a smoke screen for concealing tactical maneuvers of a vehicle. The safety pins are removed from both grenades during assembly, therefore, the munition is armed and ready to function when it is released from the launcher tube. The aluminum-alloy cap assembly is rolled in place over a rubber gasket on the open end of the tube to hold the sabot assembly in place. The carriage containing the percussion primer is positioned in the base of the tube. A threaded plastic retainer holds the M225 cartridge in place. Two synthetic-rubber or felt pads are placed between each grenade and the sabot assembly. A plastic spacer separates the grenades inside the sabot assembly. A synthetic-rubber seal serves as an obturator ring between the sabot assembly and the cartridge.

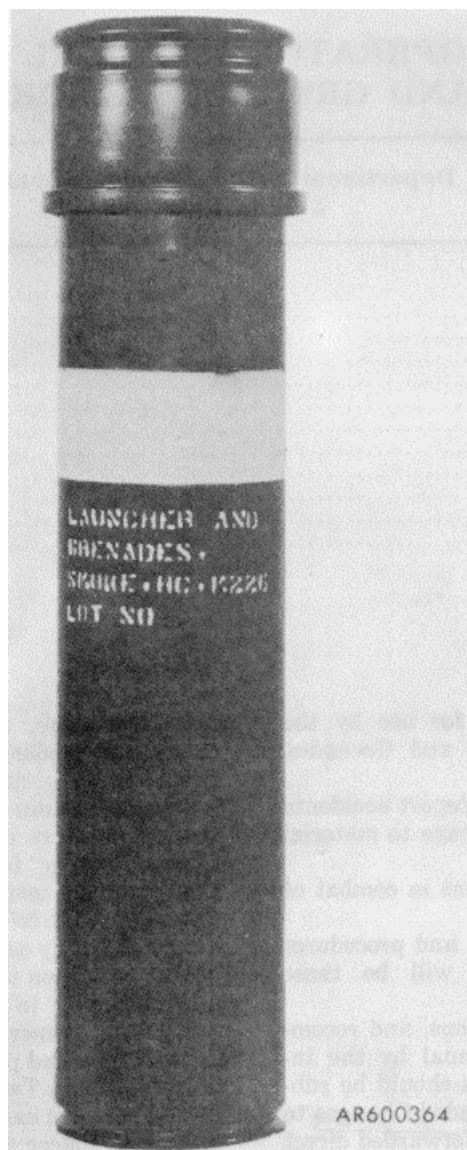


Figure 1. M226 grenade launcher.

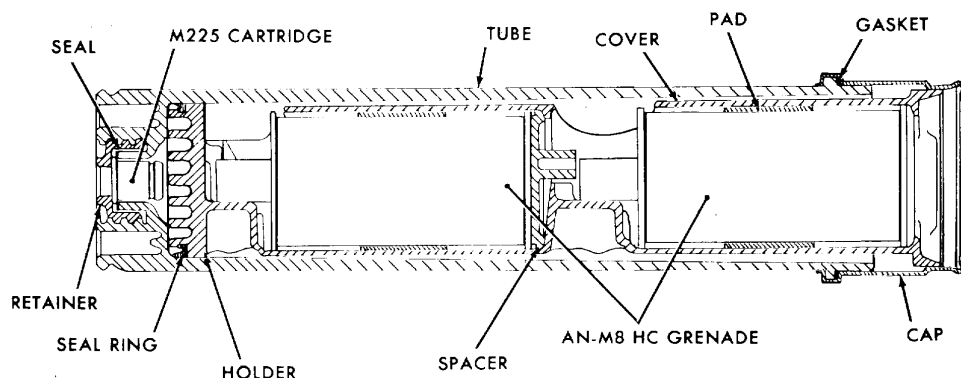


Figure 2. M226 grenade launcher, cross-section view.

4. Tabulated Data. a. M226 Grenade Launcher.

Length.....38.10 centimeters
 Diameter.....9.37 centimeters
 Weight.....2315 grams
 Range.....31 to 46 meters

b. AN.M8 HC Grenade.

Diameter.....6.35 centimeters
 Height.....11.43 centimeters
 Weight.....680 grams
 Fuze.....M201A1
 Fuze delay time.....1.2 to 2 seconds
 Burning time.....105 to 150 seconds

c. M225 Cartridge.

Diameter.....1.83 centimeters
 Length.....2.22 centimeters
 Weight.....8.50 grams
 Primer percussion.....M29A1
 Propellant (BKNO 3) weight.....1.49 grams

5. Functioning

WARNINGS

Never place any portion of the body in front of either end of an M226 grenade launcher.

Always handle an M226 grenade launcher as an armed munition.

Never attempt to disassemble an M226 grenade launcher or sabot assembly. The safety pins have been removed from the grenades during assembly of the M226 grenade launcher.

Always make sure the master switch and individual firing switches are in the OFF position BEFORE loading an M226 grenade launcher into a firing tube mount.

Do not drop the M226 grenade launcher. Striking the cartridge primer may cause the munition to function.

All personnel that are outside a vehicle that fires M226 grenade launchers must remain at least 100 meters (328 ft) from the vehicle during firing.

Always consider a delay in firing as a misfire after three attempts to fire have failed.

Do not use an M226 grenade launcher that has been hit by small arms' fire or has cracks, dents, or other deformities. Isolate these launchers and notify Explosive Ordnance Disposal (EOD) personnel immediately.

Notify Explosive Ordnance Disposal (EOD) personnel when grenades fail to function; give the quantity and location of all unfired grenades.

When a misfire occurs, all personnel must remain 100 meters (328 ft) clear of firing vehicle and firing-vehicle crew must remain "buttoned up" for at least 5 minutes. When an M226 grenade launcher is fired, the firing pin strikes the M225 cartridge percussion primer, which ignites the propellant charge in the M225 cartridge (fig. 2). Gas, which is formed in the sealed projector base cavity, ejects the sabot assembly and grenades through the end of the cap. Then the sabot assembly's cover and holder separate and allow the grenade fuzes to function (TM 9-1330-200 describes the HC grenades).

NOTE

See applicable vehicle manual for specific loading, firing, and unloading procedures.