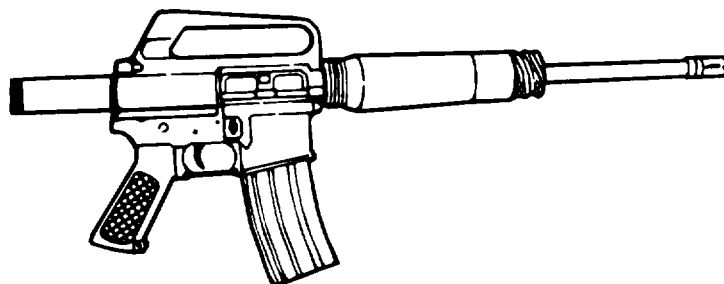


TM 9-1005-309-10
Supersedes copy
dated 4 April 1986

OPERATOR'S MANUAL



SUBMACHINE GUN, 5.56-MM: PORT FIRING, M231
(1005-01-081-4582) EIC: (4BE)

HEADQUARTERS, DEPARTMENT OF THE ARMY

AUGUST 1997

WARNING

To avoid accidental firing'

- (1) **Keep selector lever in SAFE position until you're ready to fire**
- (2) **Always look into chamber after clearing weapon to ensure it does not contain a round.**
- (3) **Never insert loaded cartridge magazine into the weapon until you're ready to fire.**

To avoid possible explosion.

- (1) **Be sure bolt cam pin is installed in the bolt carrier and striker assembly**
- (2) **Never exchange or switch bolt carrier and striker assembly between weapons.**
- (3) **Use only authorized ammunition.**
- (4) **Do not fire weapon if there's water or any obstruction in the barrel and extension assembly.**

To avoid possible ammunition cook-off

If your weapon stops firing with a live round in the chamber of a hot barrel and extension assembly, remove the cartridge magazine immediately and remove the round by charging action.

To avoid injury to personnel

- (1) **Single hearing protection must be worn when firing the firing port weapon from vehicle.**
- (2) **Brass catcher bag/evacuation hose system must be installed when firing the firing port weapon.**
- (3) **Be sure to clear weapon before disassembly, cleaning, inspecting, transporting, or storing.**

FIRST AID

For further information on first aid, see FM 21-11

Technical Manual

No. 9-1005-309-10

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington D.C., 5 August 1997

**OPERATOR'S MANUAL
SUBMACHINE GUN, 5.56-MM: PORT, FIRING, M231
(1005-01-081-4582)**

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

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. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) direct to: Director, Armament and Chemical Acquisition and Logistics Activity, ATTN: AMSTA-AC-NML, Rock Island, IL 61299-7630. A reply will be furnished to you.

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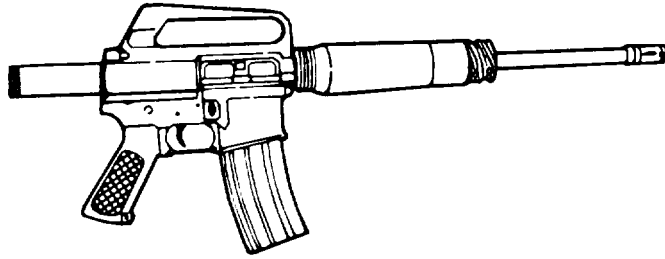
*This manual supersedes TM 9-1005-309-10, 4 April 1986.

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**CHAPTER 1
INTRODUCTION**

Section I. GENERAL INFORMATION**WARNING**

The firing port weapon may be used in the hand-held off-vehicle mode only in a combat emergency situation. The weapon is not authorized for off-vehicle use during training. When used on the vehicle, the following precautions must be taken:

1-1

GENERAL INFORMATION-CONT

- a. The muzzle tends to rise when the weapon is fired. Take a firm grip on the weapon. A positive effort is required to keep the muzzle down.
- b. The barrel collar becomes hot when the weapon is fired. Do not touch the barrel collar.
- c. Single hearing protection must be worn when firing the firing port weapon from vehicle.
- d. Brass catcher bag/evacuation hose system must be installed when firing the firing port weapon.

1-1. SCOPE.

- a. Type of Manual: Operator's manual.
- b. Model Number and Equipment Name: M231 firing port 5.56-mm submachine gun (firing port weapon).
- c. Purpose of Equipment: To provide personnel inside vehicle a suppressive fire capability while in the mounted role.

Weapon can be removed for field use under combat emergency conditions. The weapon is not authorized for off-vehicle use during training.

1-2. MAINTENANCE FORMS AND RECORDS.

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738-750, the Army Maintenance Management System (TAMMS).

1-3. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR'S).

If your firing port weapon needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance. Put it on an SF 368 (Quality Deficiency Report). Mail it to us at Commander, U.S Army Armament Research, Development and Engineering Center, ATTN: AMSTA-AR-QAW-A (R)/Customer Feedback Center, Rock Island, IL 61299-7300. We'll send you a reply.

Section II. EQUIPMENT DESCRIPTION**1-4. EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES.**

The firing port weapon:

- a. Is Lightweight, air-cooled, gas operated, cartridge magazine fed, mounted in a ball firing port in the vehicle.

1-4. EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES-CONT.

- b. Fires full automatic only, beginning from open bolt carrier and striker assembly position.
- c. Provides personnel inside vehicle with suppressive fire capability while in a mounted role.

1-5. EQUIPMENT DATA.

Weight:

Without 30-round cartridge magazine	7.34 lb (3.33 kg)
With 30-round cartridge magazine	8.34 lb (3.79 kg)
Overall length	28.25 in. (71.76 cm)

Firing rate (full automatic only):

Sustained (short bursts)	50 to 60 rds per min
Minimum cyclic	1225 rds per min
Maximum effective range	328 yds (300 m)

CHAPTER 2
OPERATING INSTRUCTIONS

Section I. DESCRIPTION AND USE OF OPERATOR'S CONTROLS

2-1. GENERAL.

WARNING

To be considered **SAFE** before disassembly, cleaning, inspecting, transporting, or storing, the weapon must be cleared.

NOTE

This manual does not depict the weapon mounted, so that you may more clearly view the weapon and it's operation.

2-1