OPERATOR’S MANUAL

MACHINE GUNS, CALIBER .50; BROWNING, M2, HEAVY BARREL

FLEXIBLE, W/E (1005-00-322-9715) (EIC: 4AG)
M48 TURRET TYPE (1005-00-957-3893) (EIC: 4BB)

SOFT MOUNT (1005-LL-H11-5877) (NAVY)
FIXED TYPE RIGHT HAND FEED (1005-00-122-9339) (NAVY)
FIXED TYPE LEFT HAND FEED (1005-00-122-9368) (NAVY)

HEADQUARTERS, DEPARTMENTS OF THE ARMY,
US MARINE CORPS, AIR FORCE AND NAVY
WARNING

Hearing protection must be worn when firing this weapon.

Headspace should be checked and adjusted before firing weapon, after assembling weapon, and after replacing barrel. Improper headspace and timing can cause malfunctions, damage to the gun, and injury to personnel.

When bolt latch release and trigger are both held down, machine gun will fire automatically (flex only).

Immediate action should be applied to a hot weapon within 10 seconds (cook-off). If round is not removed within 10 seconds, wait 15 minutes. Keep the weapon trained on the target.

Never open the cover on a hot weapon. An open cover cook-off could occur and result in serious injury or death.
When machine gun has been in action, clear machine gun before anyone moves in front of the muzzle. Clearing consists of unloading the machine gun and visually inspecting weapon to ensure all rounds have been removed. Do not release the bolt or press the trigger.

Chemical resistant gloves must be worn while using dry cleaning solvent.

Do not expose ammunition to the direct rays of the sun.

Do not oil or grease ammunition. Oiled cartridges will produce excessive chamber pressure.

Be sure to clear weapon before disassembling, cleaning, inspecting, transporting, or storing.

Do not remove backplate unless the bolt is in forward position.
Do not attempt to charge machine gun without the backplate assembled to machine gun. Stand to one side when removing backplate.

Never attempt to lift machine gun by the backplate group assembly in the upright position.

To prevent accidental firing, immediately after a firing exercise, request unit maintenance remove the side plate trigger assembly from the receiver when the M2 flex machine gun has been used on the M63 antiaircraft mount. The side plate trigger is to be stored in the container attached to the M63 antiaircraft mount.

Heat protective mitten should be used when barrel is hot.

Do not close cover when bolt is held rearward as damage may occur when bolt goes forward.

Never remove the backplate assembly from any weapon until the chamber has been cleared.
FIRST AID

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

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OPERATOR'S MANUAL
MACHINE GUN, CALIBER. 50; BROWNING, M2, HEAVY BARREL

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2. New or changed material is indicated by a vertical bar in the margin of the page.
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By Order of the Secretary of the Army:

DENNIS J. REIMER  
General, United States Army  
Chief of Staff

Official:

JOEL B. HUDSON  
Acting Administrative Assistant to the  
Secretary of the Army  
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Administrative Assistant to the
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* This manual supersedes TM 9-1005-213-10, 12 July 1968, including all changes.
This manual supersedes NAVSEAOP 4130, July 1972, including all changes.
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-MAS, Rock Island, IL 61299-7630. Marine Corps users submit NAVMC 10722 to: Commander, Marine Corps Logistics Base (Code 850), Albany, GA 31704-5000. Air Force user submit AFTO Form 22, Technical Order System Publication Improvement Report and Reply to: WR-ALC/LZDTA, Robins AFB, GA 31098-5330. Navy users submit Form TMDER NAVSEA 9086/10 to: Commanding Officer, Naval Weapons Support Center, Code 20, Crane, IN 47522-5020. A reply will be furnished to you.

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INTRODUCTION

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1-1. SCOPE.


b. Model Number and Equipment Name: Browning Machine Gun, Caliber .50; M2, heavy barrel, flexible type, and M48 turret type, soft mount, and fixed type machine guns. For maintenance of the M3 Tripod Mount, MK 93 MOD 0 and MOD 1 Mounts refer to TM 9-1005-245-13&P. Marine Corps users refer to TM 9-1010-231-13&P for MK 64 Mount maintenance procedures.

c. Purpose of Equipment: To provide automatic weapon suppression fire for offensive and defensive purposes. This weapon can be used effectively against personnel, light armored vehicles, and low flying, slow flying aircraft. The caliber .50, M2 flexible version is used as a ground gun on either the M3 Tripod Mount or with the MK 93 MOD 0 Mount on the M3 Tripod. The caliber .50 M2, M48 turret type, fixed type and soft mount are installed on mounts of several different types of combat vehicles and ships.

1-2. MAINTENANCE FORMS AND RECORDS.

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

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Navy users refer to applicable preventive maintenance instructions. Marine Corps forms and procedures for equipment maintenance will be those prescribed by TM 4700-15/1. Air Force users refer to TO 11 W1-1-10 for applicable forms and records.

1-3. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR)

If your machine gun or mounts need 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, US Army Armament, Research, Development and Engineering Center, ATTN: AMSTA-AR-QAW, Rock Island, IL 61299-7300. Marine Corps personnel are encouraged to submit SF 368 in accordance with MCO 4855.10, Quality Deficiency Report, to: Commander, Marine Corps Logistics Base (Code 808), Albany, GA 31704-5000. Air Force users submit Materiel Deficiency Report (MDR) and Quality Deficiency Report (QDR) in accordance with TO 00-35D-54, TM, USAF, Materiel Deficiency Reporting and Investigating System to WR-ALC/LZBS, Robins AFB, GA 31098-5330. Navy users submit SF 368, Quality Deficiency Report, to: Commanding Officer, Naval Weapons Support Center, Code 20, Crane, IN 47522-5020.
1-4. CORROSION PREVENTION AND CONTROL (CPC).

Corrosion Prevention and Control (CPC) of Army materiel is a continuing concern. It is important that any corrosion problems with this item be reported so that the problem can be corrected and improvements can be made to prevent the problem in future items.

While corrosion is typically associated with rusting of metals, it can also include deterioration of other materials such as rubber and plastic. Unusual cracking, softening, swelling, or breaking of these materials may be a corrosion problem.

If a corrosion problem is identified, it can be reported using SF 368, Quality Deficiency Report. Use of key words such as 'corrosion', 'rust', 'deterioration', or 'cracking' will assure that the information is identified as a CPC problem. The form should be submitted to: Commander, US Army Armament, Research, Development and Engineering Center, ATTN: AMSTA-AR-QAW, Rock Island, IL 61299-7300. Marine Corps personnel are encouraged to submit SF 368 in accordance with MCO 4855.10, Quality Deficiency Report, to: Commander, Marine Corps Logistics Base (Code 808), Albany, GA 31704-5000.

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