

CHANGE
NO. 1

HEADQUARTERS, DEPARTMENT OF THE ARMY
WASHINGTON, DC, 30 September 2003

**MODIFICATION WORK ORDER
FOR
MACHINE GUN, 7.62MM, M240B
(NSN 1005-01-412-3129) (EIC 4BJ)**

DISTRIBUTION STATEMENT B: Distribution authorized to U.S. Government agencies and private individuals or enterprises eligible to obtain export-controlled technical data in accordance with regulations implementing 10 USC 140c. This determination was made on 2 February 1987. Other requests will be referred to Commander, U.S. Army Tank-automotive and Armaments Command, ATTN: AMSTA-LC-CIP-WT, 1 Rock Island Arsenal, Rock Island, IL 61299-7630.

MWO 9-1005-313-30-1, dated 1 February 2002, is updated as follows:

1. File this sheet in front of the MWO for reference.
2. This change is a result of new installation procedures.
3. New or updated text is indicated by a vertical bar in the outer margin of the page.
4. Remove old pages and insert new pages as indicated below.

Remove Pages
1-8

Insert Pages
1-8

By Order of the Secretary of the Army:

Official:

PETER J. SCHOOMAKER
General, United States Army
Acting Chief of Staff

A handwritten signature in cursive script that reads "Joel B. Hudson".

JOEL B. HUDSON
Administrative Assistant to the
Secretary of the Army
0218601

ROUTINE

MWO effective date is 1 February 2002 and completion date is 31 December 2006.

MWO 9-1005-313-30-1

MODIFICATION WORK ORDER

MODIFICATION OF MACHINE GUN, 7.62MM, M240B (NSN 1005-01-412-3129) (EIC 4BJ)

HEADQUARTERS, DEPARTMENT OF THE ARMY, WASHINGTON, D.C.

1 February 2002

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this publication. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Submit your DA Form 2028 (Recommended Changes to Equipment Technical Publications), through the Internet, on the Army Electronic Product Support (AEPS) website. The Internet address is <http://aeaps.ria.army.mil>. If you need a password, scroll down and click on "ACCESS REQUEST FORM". The DA Form 2028 is located in the ONLINE FORMS PROCESSING section of the AEPS. Fill out the form and click on submit. Using this form on the AEPS will enable us to respond quicker to your comments and better manage the DA Form 2028 program. You may also mail, fax or email your letter, DA Form 2028, direct to: Commander, U.S. Army Tank-automotive and Armaments Command, ATTN: AMSTA-LC-CI/ TECH PUBS, TACOM-RI, 1 Rock Island Arsenal, Rock Island, IL 61299-7630. The email address is TACOM-TECH-PUBS@ria.army.mil. The fax number is DSN 793-0726 or Commercial (309) 782-0726.

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DESTRUCTION NOTICE: For unclassified, limited documents, destroy by any method that will prevent disclosure of contents or reconstruction of the document.

1. **PURPOSE.** This MWO prescribes procedures to replace the M240B Machine Gun's (MG's) handguard with a forward rail assembly. The new forward rail assembly provides the user a secure, easy to attach and use, alternate MIL-STD-1913 rail surfaces for mounting optical or electronic devices.
2. **PRIORITY.** This modification is classified **ROUTINE**.

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3. END ITEM(S) OR SYSTEM(S) TO BE MODIFIED. See Table 1.

Table 1. End Item(s) or System(s) to be Modified

Nomenclature	NSN	Part No.	CAGEC
M240B Machine Gun	1005-01-412-3129	12976814	19200

4. MODULES (COMPONENTS, ASSEMBLIES, SUBASSEMBLIES, BOARDS AND CARDS) TO BE MODIFIED. Not Applicable.

5. PARTS TO BE MODIFIED. Not Applicable.

6. APPLICATION.

- a. **Time Compliance Schedule:** MWO effective date is 1 February 2002 and completion date is 31 December 2006.
- b. **Lowest Level of Maintenance Authorized to Apply this MWO:** Direct Support.
- c. **Work Force and Man-Hour Requirements for Application of the MWO to a Single Unit, End, Item, or System:** Total man-hours required for a single application of this MWO is: 0.3 hours.

<u>Work Skills Force</u>	<u>Man-Hours</u>
MOS 45B	0.3 hours

7. Technical Publications Affected/Changed. See Table 2

Table 2. Technical Publications Affected/Changed

Publication Number	Date
TM 9-1005-313-23&P	June 1997
DMWR 9-1005-313	Jan 1989

8. MWO KIT(S)/PART(S) AND THEIR DISPOSITION:

Table 3. MWO Kit(s)/Part(s) Needed to Apply the MWO

Nomenclature	NSN	Part No.	Qty	CAGEC	Security Classification
MWO Kit, M240B Accessory Rail consisting of:	1005-01-487-8049	12997576	1	19200	U
(1) 1/2" Hex Socket Head Cap Screw	5305-00-419-0820	M16996-10B	6 EA	80205	U
(2) Lock Washer	5310-00-596-7691	MS35335-32	8 EA	96906	U
(3) Rail	1005-01-486-3661	12997574	2 EA	19200	U
(4) Insulator	5970-01-486-3660	12997575	6 EA	19200	U
(5) Forward Rail Body	1005-01-489-5357	12997573	1 EA	19200	U
(6) 2-1/4" Hex Socket Head Cap Screw	5305-01-490-0197	NAS1351N-3-36B	2 EA	80205	U
(7) *Loctite 246 Threadlocker	TBD*	29513	10ml	05972	U

*This item is NOT a part of the MWO Kit, and is commercially available. However, for purposes of this MWO limited quantities will be provided for this application. One 10ml bottle of Loctite 246 Threadlocker should be sufficient for 30 MWO applications.

Cross leveling of the handguard listed in Table 4 to a unit still requiring their use is strongly encouraged. Otherwise they should be turned in through the normal channels for proper disposal.

Table 4. Parts Disposition

NOMENCLATURE	NSN	Part Number	QTY	CAGEC
Handguard	1005-01-429-0423	12976840	1 EA	19200

9. SPECIAL TOOLS; TOOL KITS; JIGS; TEST, MEASUREMENT AND DIAGNOSTIC EQUIPMENT (TMDE); AND FIXTURES REQUIRED. Not Applicable.

10. MODIFICATION PROCEDURES.

DISASSEMBLY

WARNING

Be sure to clear weapon before performing any disassembly.

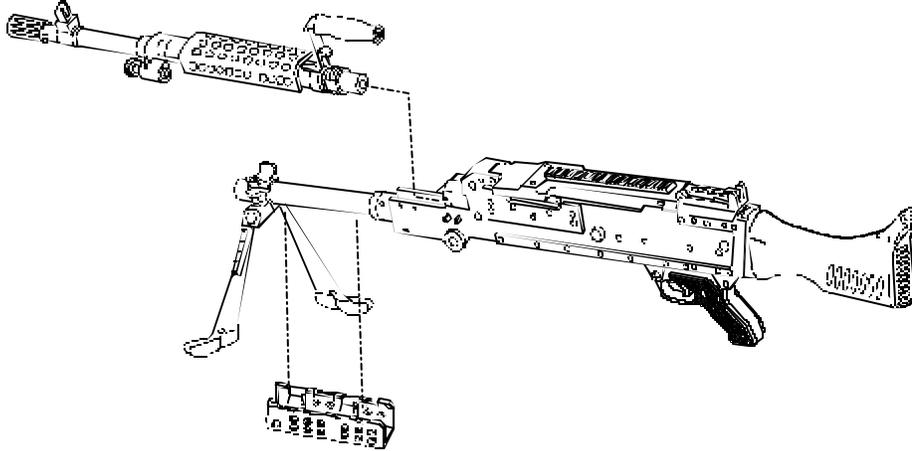


Figure 1

- a. Remove Barrel Assembly.
- b. Pull handguard straight down and off gas cylinder. Follow disposition instructions provided in paragraph 8.

REASSEMBLY

- a. Install the accessory rail body (1) against the receiver at the receiver/gas tube juncture with the extruded end pointing forward on the gas tube.
- b. Install a star lock washer (2) on each of the two, 2-1/4" screws (3). Clean the threaded portion of the two screws (3) with MIL-PRF-680. Apply Loctite 246 to the threads of the two 2-1/4" screws (3) and insert into the forward and rear mounting holes from the right to left. Hand tighten the screws (3) until they are finger tight. Using a 5/32" hex wrench, tighten the forward screw no more than 3 revolutions past finger tight. Tighten the rear screw no more than 1/4 revolution past finger tight.

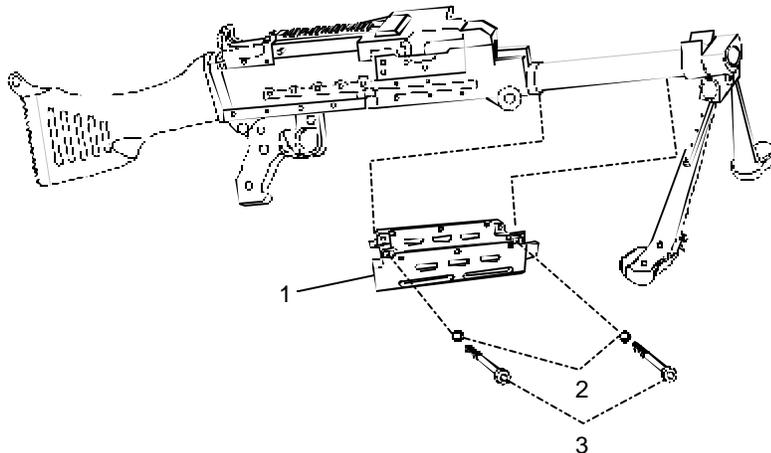


Figure 2
Change 1 4

- c. Function check to ensure operating rod moves without binding. If binding occurs, back-off rear screw until operating rod moves freely (1/8 turn max.).

NOTE

The right and the left rails (4) are interchangeable.

The end of each rail with the partial groove (larger numbers) should be toward the muzzle of the weapon.

Lubricate threads of screws before installation.

- d. Install star lock washers (2) on each of six 1/2" screws (5). Insert screw (5) through the forward mounting hole of rail (4) so the head of screw (5) sits in the counter bore in the rail (4). Align an insulator (6) between the rail (4) and rail body (1), insert screw into rail body (1) and tighten screws (5) finger tight.
- e. Repeat step d for rear screws.

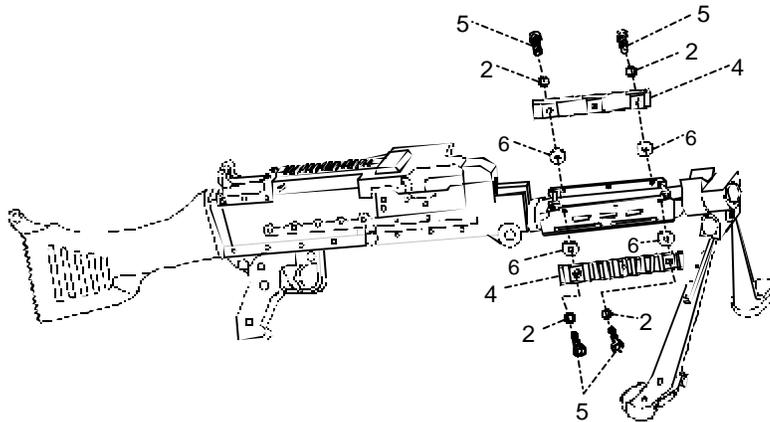


Figure 3

- f. Align an insulator (6) between the rail (4) and rail body (1). Insert center screws (5) through rail body (1) from the inside, push screw through insulator (6) into rail and tighten screws (5) finger tight.

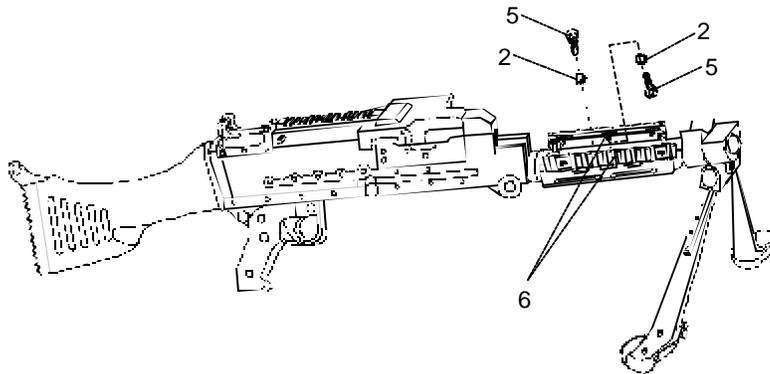


Figure 4

- g. With the 5/32" hex wrench tighten all six screws (5) no more than 1/2 revolution to secure the rail (4) to the rail body (1).
- h. Reinstall the barrel assembly.

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- 11. **CALIBRATION REQUIREMENTS.** Not Applicable.
- 12. **WEIGHT AND BALANCE DATA.** The weight and balance are not significantly affected.
- 13. **QUALITY ASSURANCE REQUIREMENTS.** Not Applicable.
- 14. **RECORDING AND REPORTING OF THE MODIFICATION.**

Reporting will be accomplished by electronic means. MWO application information can be input directly into the Modification Management Information System (MMIS) over the internet. If internet is not available, recording will be on a 3.5 inch disk, which is to be mailed to the address in paragraph 14d. Entry into the MMIS system is password protected. New users can register on-line at <http://www.mmis-mwo.com>. Passwords are normally approved and issued within 48 hours.

Submission will be comprised of the fifteen (15) data elements listed in Table 5, Elements 1, 2, 6, 7, 8 and 12 are provided for this MWO. The person reporting the MWO data will acquire the remaining elements (3, 4, 5, 9,10, 11, 13, 14 and 15) and input all fifteen elements into the MMIS.

Table 5. Data Elements

DATA ELEMENT		INPUT DATA
1	Materiel Change Number (MCN)	1-01-05-0014
2	MWO Number	9-1005-313-30-1
3	Unit Identification Code (UIC) @ Battalion Level	
4	Unit Name	
5	Unit Location	
6	NSN of the End Item (Old)	1005-01-412-3129
7	NSN of the End Item (New)	
8	Registration Number	N/A
9	Date of Application	
10	Man-Hours Required for Application	
11	Applied By	
12	Software Version	N/A
13	Serial Number	
14	Your Email Address	
15	Comments	

If any of these data elements are not available, or if no record is found, one of the following will be entered for that element:

- N/A – Not Applicable
- N/R – No Record Found

For off-line reporting, the 3.5 inch disk shall be mailed to:

Commander
 U.S. Army Tank-automotive and Armament Command
 ATTN: AMSTA-LC-CIP-WM (Ms. Kathleen Johnson)
 1 Rock Island Arsenal
 Rock Island, IL 61299-7630

15. **MATERIEL CHANGE (MC) NUMBER.** MC number 1-01-05-0014 is required for this MWO.
16. **MODIFICATION IDENTIFICATION.** This MWO adds two forward rails for mounting a variety of different items. The rails will be mounted on the MG in place of the hand guard. See Figure 5 below for illustration of M240B MG after completion of this MWO.

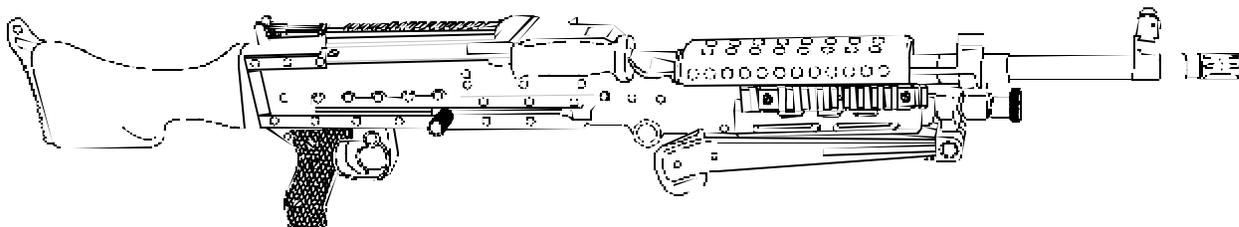


Figure 5

By Order of the Secretary of the Army:

Official:



JOEL B. HUDSON

*Administrative Assistant to the
Secretary of the Army*

0203102

ERIC K. SHINSEKI
*General, United States Army
Chief of Staff*

MWO 9-1005-313-30-1

PIN: 079840