

NORMAL

MWO effective date is Oct 90 and completion date is Sep 94.

MWO 9-1005-201-30-1

MODIFICATION WORK ORDER

MODIFICATION OF MACHINE GUN, 5.56MM, M249
(NSN 1005-01-127-7510)

Headquarters, Department of the Army Washington, DC
31 December 1990

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this MWO. If you find any mistakes or if you know of a way to improve these procedures, please let us know. Write a letter or complete and mail a DA Form 2028, Recommended Changes to Publications and Blank Forms, to Commander, U.S. Army Armament, Munitions and Chemical Command, ATTN: AMSMC-MAS, Rock Island, IL 61299-6000. A reply will be provided to you.

1. PURPOSE. The purpose of this modification is to upgrade the weapon for combat effectiveness by the replacement of component parts to the M249 Machine Gun.
2. PRIORITY. This modification is classified NORMAL.
3. END ITEM OR SYSTEM TO BE MODIFIED. Machine Gun, 5.56MM, M249 (NSN 1005-01-127-7510)
4. MODULE(S) (COMPONENTS, ASSEMBLIES, SUBASSEMBLIES, BOARDS, AND CARDS) TO BE MODIFIED. Not applicable.
5. PARTS TO BE MODIFIED. Not applicable.

DISTRIBUTION STATEMENT C: Distribution authorized to U.S. Government agencies and their contractors in order to protect information and technical data developed by government agencies and their contractors that address current technology in areas of potentially significant military application. This determination was made on 7 July 1989. Other requests for this document will be referred to Commander, U.S. Army Armament, Munitions and Chemical Command, ATTN: AMSMC-MAS, Rock Island, IL 61299-6000.

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6. APPLICATION.

a. Time compliance schedule: This MWO is effective October 1990 and the completion date is September 1994.

b. Level of maintenance: The lowest level of maintenance authorized to apply this MWO is Direct Support Maintenance.

c. The total man-hours required for a single application of this MWO is 0.1 hours.

7. TECHNICAL PUBLICATIONS AFFECTED/CHANGED. TM 9-1005-201-10/TM 08671A-10/1 and TM 9-1005-201-23&P/TM 08671A-23&P/2.

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

a. All parts needed to apply MWO. Not applicable.

b. Contents of MWO kits.

NSN	Item Name and Part No.	Qty per End Item
1005-01-266-1703	Modification Kit, M249 (19200) 12557034 consisting of:	1
1005-01-254-9801	Return Rod and Transfer Assy (19200) 12540416	1
1005-01-254-9802	Buttstock and Buffer Assy (19200) 12556935	1
5315-01-268-0391	Pin, Grooved, Headed (19200) 12598571	1
5340-01-128-5607	Clip, Retaining (19200) 9348245	2 (one is a spare)

c. Bulk and expendable material. Not applicable.

d. Parts disposition. Disposition is done locally. Parts should be mutilated per DOD 4160.21-M-1 prior to disposal.

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

10. MODIFICATION PROCEDURES.

a. Unpackage the Modification Kit.

b. Inspect modification kit for completeness and for damage before assembly, as follows:

(1) Visually inspect the buttstock and buffer assembly for bent or missing shoulder rest or oil leaks on face of backplate.

(2) Visually inspect return rod and transfer assembly for bent rod or missing spring pins.

c. Clear the weapon as follows:

(1) Charge weapon (pull cocking handle to the rear). Be sure bolt is locked in rear position. Push charging handle forward until you hear it click.

(2) Push safety to right (red ring not visible).

(3) Squeeze latches and open cover assembly.

(4) If present, remove ammo belt, loose links or magazine.

(5) Raise feed tray and look into chamber and assure it is empty.

(6) Close cover assembly. Make sure it locks in place.

(7) Push safety to left (red ring visible). Hold cocking handle to rear, depress trigger and ride bolt forward to close and lock.

d. Remove operating rod assembly as follows:

WARNING

Be sure bolt is in forward position before removing drive spring.

(1) Pull the upper grooved pin at the rear of the receiver to the left to release the buttstock.

(2) Let the buttstock pivot downward so that the rear opening on receiver is completely free.

(3) By holding weapon with one hand on the buttstock, simultaneously push in and upward on the rear end of operating rod assembly with thumb of other hand. The operating rod assembly is now released from positioning groove inside receiver. Withdraw the operating rod assembly and spring.

e. Remove the drive spring from the old operating rod and discard the operating rod assembly. Check the drive spring for broken strands and replace if more than one broken strand is found on same coil or if more than two strands are broken regardless of location on entire spring.

f. Assemble the drive spring onto the new return rod transfer assembly.

g. Remove buttstock by pushing the lowermost pin to the left. Push pin only far enough to release the buttstock and the trigger mechanism will remain in place. Remove the buttstock by pulling it to the rear while supporting the trigger mechanism. Discard buttstock assembly.

h. Install the new buttstock and buffer assembly by aligning lower hole in buttstock and buffer assembly with rear hole in the trigger mechanism and push the lower pin to the right.

i. Remove retaining clip from upper grooved pin at the rear of the receiver and discard.

j. Remove grooved pin from the receiver and discard.

k. Install new pin, grooved, headed (left to right) in the hole at the rear of the receiver and install new retaining clip between the receiver side wall and rail extension on left side of receiver and insert into groove on new pin.

l. Install the new return rod and transfer assembly with spring into receiver.

m. Pivot the buttstock and buffer assembly upward into position and push the retaining pin, grooved, headed, to the right.

11. CALIBRATION REQUIREMENTS. Not applicable.

12. WEIGHT AND BALANCE DATA. Not significantly affected.

13. QUALITY ASSURANCE REQUIREMENTS. Not applicable.

14. RECORDING AND REPORTING OF THE MODIFICATION.

a. Records and reports. Record and report accomplishment of the modification in accordance with DA PAM 738-750, The Army Maintenance Management System (TAMMS). A DA Form 2407 shall be completed and submitted within 3 days of accomplishment of modification. Specific instructions for use of DA Form 2407 to report a modification are contained in paragraph 3-8 and figure 3-12 of DA PAM 738-750. After completion, copies of DA Form 2407 will be distributed as follows:

(1) copy 1: Retained by using unit.

(2) Copy 2: Commander
HQ, AMCCOM
ATTN : AMSMC-MAF
Rock Island, IL 61299-6000

(3) copy 3: Retained by unit.

b. Marking equipment. Not applicable.

c. Identification data. Not applicable.

15. MATERIEL CHANGE (MC) NUMBER. This MWO is authorized by MC number 1-84-05-7119.

16. MODIFICATION IDENTIFICATION. Not applicable.

By Order of the Secretary of the Army:

CARL E. VUONO
General United States Army
Chief of Staff

Official:

THOMAS F. SIKORA
Brigadier General, United States Army
The Adjutant General

DISTRIBUTION:

To be distributed in accordance with DA Form 12-40E, (Block 0573),
Direct and General Support Maintenance Requirements for MWO 9-1005-201-30-1.

