

ROUTINE

MWO effective date is 1 June 1997 and its completion date is 31 May 2001.

MWO 9-2350-314-20-8

MODIFICATION WORK ORDER

MODIFICATION OF HOWITZER, MEDIUM, SELF-PROPELLED: 155MM, M109A6 (NSN 2350-01-305-0028) (EIC: 3FC)

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

22 October 1997

REPORTING OF 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. 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-NMLI, Rock Island, IL 61299-7630. A reply will be provided to you.

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1. PURPOSE. This MWO prescribes procedures for replacing bore evacuator, part number (PN) 11578385, with advanced bore evacuator assembly, PN 11580776. The advanced bore evacuator assembly will more efficiently evacuate fumes from the tube bore. The advanced bore evacuator also provides improved reliability and maintainability.

2. PRIORITY. This modification is classified ROUTINE.

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

Table 1. End Item or System to be Modified.

NOMENCLATURE	NSN	PART NO.	MODEL	CAGEC	SERIAL NO. RANGE
Medium, Self-Propelled Howitzer, 155MM	2350-01-305-0028	12553195	M109A6	19200	1-376

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4. **MODULE(S) (COMPONENTS, ASSEMBLIES, SUBASSEMBLIES, BOARDS, AND CARD(S) TO BE MODIFIED).** Not applicable.

5. **PARTS TO BE MODIFIED.** Not applicable.

6. **APPLICATION.**

a. Time Compliance Schedule: MWO effective date is 1 June 1997 and completion date is 31 May 2001.

b. Level of Maintenance: Unit maintenance is the lowest level of maintenance authorized to apply this MWO.

c. Work Force and Man-hour Requirements.

REQUIREMENTS

<u>WORK FORCE/SKILLS</u>	<u>MAN-HOURS</u>	<u>MAN-HOUR W/O DISASSEMBLY</u>
Armament Repairers (two) (MOS 45D)	3.0 hours	2.0 hours

d. MWOs to be Applied Prior to or Concurrently with this MWO. Not applicable.

e. Additional Information. None.

7. **TECHNICAL PUBLICATIONS AFFECTED/CHANGED.**

TM 9-2350-314-10

TM 9-2350-314-20-2-1

TM 9-2350-314-24P-2

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

a. Kit(s)/Part(s) Needed to Apply the MWO. See Table 2.

Table 2. Kits/Parts Required.

NOMENCLATURE	NSN	CAGEC	PART NO.
Advanced Bore Evacuator Assembly	1025-01-440-1297	19206	11580776

b. Contents of Advanced Bore Evacuator Assembly. See Table 3.

Table 3. Advanced Bore Evacuator Assembly.

NOMENCLATURE	NSN	CAGEC	PART NO.	QTY	ITEM NO.
Pre-reservoir	NA	19206	11580712	1	13
Main Reservoir	NA	19206	11580715	1	14
Collar, Thrust	NA	19206	11580718	1	17
O-Ring	5330-01-439-4077	19206	11580721	2	18
O-Ring	5330-01-439-4076	19206	11580722	1	19

c. Bulk and Expendable Material. See Table 4.

Table 4. Bulk and Expendable Material

NOMENCLATURE	NSN	CAGEC	PART NO.
Cleaner, Lubricant, Preservative	9150-01-053-6688	81349	MIL-L-63460
Grease, Molybdenum Disulfide	9150-00-754-2595	81349	MIL-G-21164

d. Parts Disposition. Parts no longer used on the M109A6 Self-Propelled Howitzer are listed in Table 5. The owning unit will initiate a Field Turn-in, Excess (FTE) action on check ball, part number (PN) 11578379. Dispose of bore evacuator, PN 11578385, and retaining ring, PN 11578378, locally.

Table 5. Parts Disposition.

NOMENCLATURE	NSN	CAGEC	PART NO.	QTY	ITEM NO.
Evacuator, Bore	1025-00-233-9045	19204	11578385	1	8
Ring, Retaining	5325-00-495-6526	19206	11578378	1	11
Ball. Check	4820-00-431-3442	19206	11578379	10	12

9. SPECIAL TOOLS; TOOL KITS; JIGS; TEST, MEASUREMENT, AND DIAGNOSTIC EQUIPMENT. See Table 6.

Table 6. Special Tools; Tool Kits; Jigs; Test, Measurement, and Diagnostic Equipment

NOMENCLATURE	NSN	CAGEC	PART NO.
Handle, Manual, T-handle	5340-01-318-0197	19200	9399097
Brush, Cleaning, Small Arms	1005-00-999-1435	19204	8432358
Brush. Cleaning, Small Arms	1005-00-903-1296	19204	11686340

10. MODIFICATION PROCEDURES.

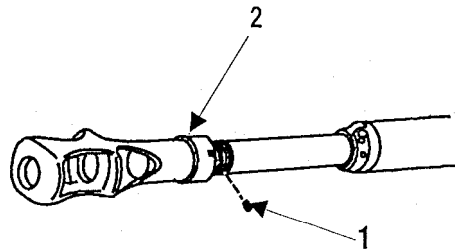
a. Removal of the Muzzle Brake.

WARNING

The muzzle brake weighs approximately 350 pounds (158.9 kg). Use caution when handling it. Use an appropriately rated hoist and sling when handling the muzzle brake. Check the inspection stamps on the sling and the hoist to ensure their certification is current. Failure to follow this warning may result in personal injury and equipment damage.

NOTE

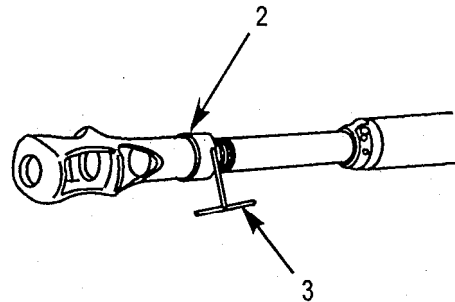
Visually inspect the muzzle brake for cracks. If any crack exceeds 1 inch (25.4 mm) in length, repair in accordance with (IAW) TM 9-2350-314-20-2.



NOTE

There are two setscrews on thrust collar (2). One is staked in place and should not be removed. It holds the ball lock device in place. The second is not staked. Removal of this setscrew allows access to release the ball lock.

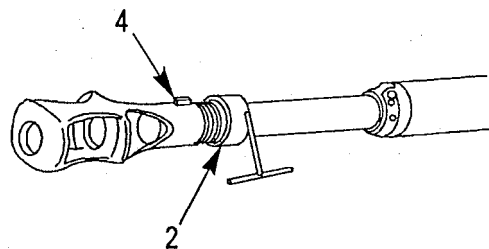
- (1) Remove setscrew (1) from thrust collar (2).



- (2) Insert T-handle (3) into the setscrew hole in thrust collar (2). Turn the handle clockwise to engage the threads. Continue turning the handle to depress the ball and spring. If a T-handle is not available, a screwdriver can be used to depress the ball.

NOTE

If the ball is stuck or spring appears broken, repair IAW TM 9-2350-314-20-2.



- (3) With the ball depressed, screw thrust collar (2) rearward to uncover key (4).