

ROUTINE

MWO effective date is 10 January 1995 and its completion date is 10 January 1999.

MODIFICATION WORK ORDER

STOWAGE BRACKETS FOR NIGHT VISION DEVICE (NVD) AND M45 PERISCOPE

FOR:

MEDIUM

M109A6 SP HOWITZER

12553195

NSN 2350-01305-0028

(EIC: 3FC)

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

10 January 1995

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 Commander, U.S. Army Tank-automotive and Armaments Command, ATTN: AMSTA-IM-MMAA, Warren, MI 48397-5000.

Distribution Statement A: This publication is approved for public release; distribution is unlimited.

1. PURPOSE. The purpose of this modification is to provide procedures to install two new stowage brackets, one for the modified ANNVS-2(V)4 Night Viewer Device (NVD) and one for the M45 periscope. This modification will provide stowage space for the modified NVD and M45 periscope, when one of the items are not mounted; and procedures to modify three M45 periscopes and vehicle periscope supports, which will prevent water from leaking into the driver's compartment.

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
Howitzer, Self-Propelled, Medium	2350-01-305-0028	12553195	M109A6	19204	1 thru 164

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

5. PART(S) TO BE MODIFIED. Not applicable.

6. APPLICATION.

- Time Compliance Schedule: MWO effective date is 10 January 1995 and completion date is 10 January 1999.
- Level of Maintenance. Unit maintenance is the lowest level of maintenance authorized to apply this MWO.
- Work Force And Man-hour Requirements. See information below for total requirements.

REQUIREMENTS	
WORK FORCE/SKILLS	MAN-HOURS
1 Track Vehicle Mechanic (MOS 63D10) or equivalent	2.0

- MWOs to be Applied Prior to or Concurrently with this MWO. None.
- Additional Information Deemed Necessary to Assist in the Application of the MWO. None.

7. TECHNICAL PUBLICATIONS AFFECTED/CHANGED. The following technical manuals have been or will be changed as a result of this MWO:

TM 9-2350-314-10, OCT 1993

TM 9-2350-314-24P-1, OCT 1993

TM 9-2350-314-201-2, OCT 1993

8. MWO KIT(SYPART(S) AND THEIR DISPOSITION.

- Kit(s)/Part(s) Required to Apply the MWO. The contents of MWO Kit, PN 12390076, CAGE 19207, are listed in Table 2.

8. MWO KIT(S)PART(S) AND THEIR DISPOSITION - CONTINUEDb. Security Classification: Unclassified.c. Weight And Dimensions:

(1) 18.5 pounds gross

(2) 28x13.5x12.5 inches (4725 cubic inches)

d. Contents of MWO Kits. See Table 2.

Table 2. Contents of MWO Kilt, PN 12390076

NOMENCLATURE	NSN	CAGEC	PART NUMBER	QTY
NVD STOWAGE BRACKET				
Bracket, Mounting Night Viewer	TBD	19207	12390059	1
Screw	5305-00-081-6729	96906	MS24667-53	4
Washer, Lock	5310-00-194-9213	96906	MS35336-39	4
Washer, Flat	5310-00-877-5972	19200	10910174-3	7
Washer, Lock	5310-00-011-5314	96906	MS35338-65	7
Nut, Plain, Hexagon	5310-00-761-0654	96906	MS51967-9	4
Decal	7690-01-327-4574	19207	12352821	1
Plate	TBD	19207	12390073	1
Screw	5305-00-068-0510	96906	MS90728-60	3
Decal	TBD	19200	12910522-41	1
PERISCOPE/NVD SUPPORT LOCKS				
Spring, Helical, Compression	5630-01-331-1492	19207	12352838	4
Washer, Flat	5310-00-080-6004	96906	MS27183-14	6
Spacer	TBD	19207	12390058	6
Bracket, Solenoid	5945-01-327-7762	19207	12352822-1	2
Bracket, Solenoid	5945-01-323-4997	19207	12352822-2	2
PERISCOPE STOWAGE BRACKET				
Bracket	TBD	19207	12390061	1
Screw, Cap Hexagon	5305-00-068-0511	96906	MS90728-62	4
Washer, Flat	5310-00-080-6004	96906	MS27183-14	8
Washer, Lock	5310-00-637-9541	96906	MS35338-46	4
Nut, Plain, Hexagon	5310-00-732-0558	96906	MS51967-8	4
Strap, Webbing	5340-00-753-3742	19204	8690471	1
Strap, Webbing	5340-00-543-3155	19207	8690476	1
Decal	TBD	19200	12910522-14	1
SHROUD ADDED TO PERISCOPE				
Gasket	TBD	19200	12927750	3
Shroud	TBD	19200	12927746	3
Clamp	TBD	19200	12927748	6
Screw, Cap, Socket Head	5305-00-469-6798	96906	MS16996-80B	12
Washer, Flat	5310-00-194-3649	96906	MS15795-808B	12
Washer, Lock	5310-00-224-0749	96906	MS35338-138B	12

8. MWO KIT(SYPART(S) AND THEIR DISPOSITION - CONTINUED

- e. Bulk and Expendable Material. See Table 3.

Table 3. Bulk and Expendable Material.

NOMENCLATURE	NSN	CAGEC	PART NO.	QTY
Sealing Compound	8030-00-081-2333	81349	MIL-S-22473	A/R

- f. Parts Disposition. The parts listed in Table 4 are to be returned to the supporting activity in accordance with AR 725-50. Those parts in Table 5 are to be disposed of in accordance with AR 725-50. The parts in Table 6 will be removed and reused when applying the MWO.

Table 4. Parts to be Returned for Disposition.

NOMENCLATURE	NSN	CAGEC	PART NO.	QTY
Bracket, Mounting, Night Viewer	5340-01-315-6282	19207	12361671	1
Box Accessories Stowage	2540-01-347-6127	19207	12361829	1
Periscope, Subassembly	6650-01-329-1674	19207	12352894	1
Sleeve, Periscope	2510-00-443-0134	19207	10903581	1
Periscope, M45	1240-00-509-2743	19200	8213430	1

Table 5. Parts to be Discarded.

NOMENCLATURE	NSN	CAGEC	PART NO.	QTY
Washer, Lock	5310-00-194-9213	96906	MS35336-39	4
Screw, Cap, Hexagon	5305-00-068-0510	96906	MS90728-60	4
Washer, Lock	5310-00-637-9541	96906	MS35338-46	4
Washer, Flat	5310-00-877-5972	19200	10910174-3	6
Screw, Cap Hexagon Head	5305-01-140-9118	80204	B1821BH038C088N	6
Retainer, Periscope	2510-00-105-9305	19207	10903580	1
Spacer, Sleeve	5365-01-314-2841	19207	12352825	2
Cam, Control	3040-00-885-8460	19207	10903639	6
Washer, Flat	5310-00-080-6004	96906	MS27183-14	10
Decal	TBD	19200	12910522-14	1
Screw, Cap, Hex	5305-00-900-4614	96906	MS24667-51	4

8. MWO KIT(S) PART(S) AND THEIR DISPOSITION - CONTINUED*Table 6. Parts to be Removed and Reused.*

NOMENCLATURE	NSN	CAGEC	PART NO.	QTY
Rod, Periscope, Lock	2590-00-724-1511	19207	10888686	6
Spring, Helical, Compression	5630-01-331-1492	19207	12352838	2
Bracket, Solenoid	5945-01-327-7762	19207	12352822-1	1
Bracket, Solenoid	5945-01-323-4997	19207	12352822-2	1
Periscope, Armored Vehicle	1240-00-509-2743	19200	8213430	1

9. SPECIAL TOOLS; TOOL KITS; JIGS, TEST, MEASUREMENT, AND DIAGNOSTIC EQUIPMENT (TMDE); AND FIXTURES REQUIRED.

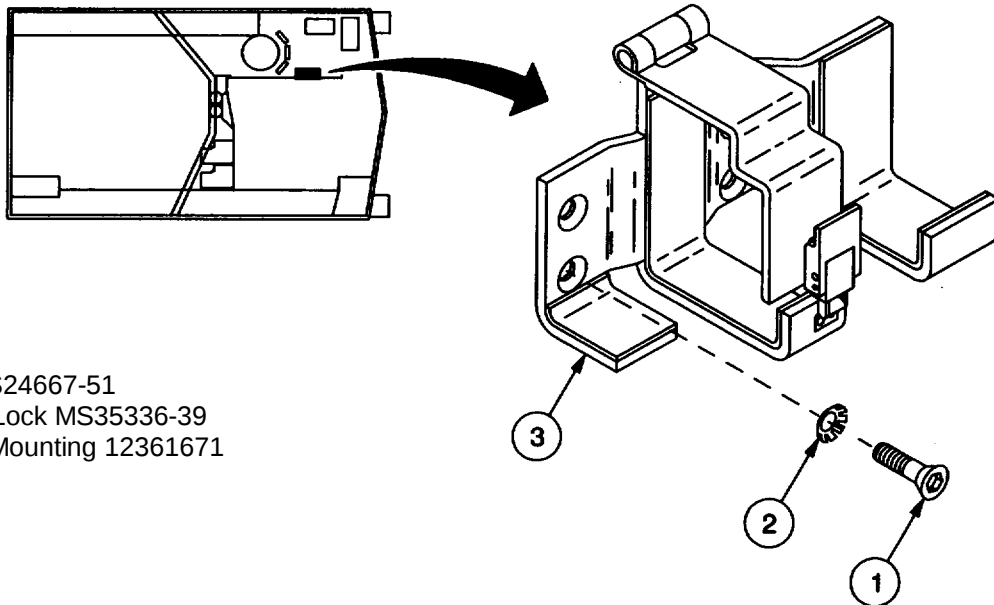
Not applicable.

10. MODIFICATION PROCEDURES.**a. NVD Stowage Bracket****(1) Removal.**

(a) Remove four screws (1) and four lockwashers (2) securing NVD stowage bracket (3). Set aside bracket and lockwashers for disposition per para 8f.

(b) Remove NVD decal.

FORWARD

**Legend:**

1. Screw MS24667-51
2. Washer, Lock MS35336-39
3. Bracket, Mounting 12361671