

ROUTINE

MWO effective date is 17 October 2005, and completion date is 17 November 2005.

MWO 9-2350-293-30-2

MODIFICATION WORK ORDER

MODIFICATION OF M992A2, CARRIER, AMMUNITION, TRACKED

(2350-01-368-9500) (EIC: AKA)

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

17 October 2005

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 the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2, located in the back of this MWO, directly to: Commander, U.S. Army Tank-automotive and Armaments Command, ATTN: AMSTA-AC-NML, Rock Island, IL 61299-7630. A reply will be furnished to you.

You may also provide DA Form 2028-2 information to TACOM via datafax or e-mail:

- The fax number is DSN 793-0726 or Commercial (309) 782-0726
- The e-mail address is amsta-ac-nml@ria-emh2.army.mil

DISTRIBUTION STATEMENT: Approved for public release; distribution is unlimited.

- 1. PURPOSE.** This modification work order (MWO) describes procedures for replacing the current Precision Lightweight Global Positioning System Receiver (PLGR) mount. The replacement mount contains an interlock power switch, which removes voltage from the PLGR power cable assembly unless the PLGR unit is secured in its mount. This modification eliminates the possibility of a ground short of the PLGR power cable assembly. A ground short could blow a fuse or damage the PLGR power cable assembly.
- 2. PRIORITY.** This modification is classified ROUTINE.

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

Table 3-1. End Item To Be Modified

Nomenclature	NSN*	CAGEC†	Part Number	Model
Carrier, Ammunition, Tracked	2350-01-368-9500	19207	8750264	M992A2

* national stock number

† commercial and government entity code

4. **MODULE(S) (COMPONENTS, ASSEMBLIES, SUBASSEMBLIES, BOARDS, AND CARDS) TO BE MODIFIED.** See Table 4-1.

Table 4-1. Assembly To Be Modified

Nomenclature	NSN	Part Number and CAGEC
Bracket, Mounting	5340-01-418-6660	12447357 (19207)

5. **PARTS TO BE MODIFIED.** See Table 5-1.

Table 5-1. Part To Be Modified

Nomenclature	NSN	Part Number and CAGEC
Cable Assembly, Power	6150-01-422-7741	12967942 (19200)

6. **APPLICATION.**

a. *Time Compliance Schedule:* MWO effective date is 17 October 2005, and completion date is 17 November 2005.

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

c. *Work Force and Man-Hour Requirements for Application of the MWO to a Single Unit, End Item, or System:*

REQUIREMENTS

WORK FORCE/SKILLS
Mechanic (Certified)

MAN-HOURS
0.5

d. *MWOs To Be Applied Prior to or Concurrently with the Application of This MWO:* Not applicable.

e. *Additional Information:* Not applicable.

7. TECHNICAL PUBLICATIONS AFFECTED/CHANGED.

TM 9-2350-293-10	November 1994
TM 9-2350-293-20-1	November 1994
TM 9-2350-293-20-2	November 1994

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

a. *Kit Needed To Apply This MWO:*

1. The kit listed in Table 8-1 is required to accomplish this MWO.

Table 8-1. Kits and Security Classification

Part Number (CAGEC)	NSN	Nomenclature	Security Classification
9399244 19200	Not Applicable	PLGR Mount Assembly	Unclassified

2. Kit shipping data is given in Table 8-2.

Table 8-2. Shipping Data

Part Number (CAGEC)	Weight	Dimensions	Cubic Displacement
9399244 19200	1.5 pounds	5 1/2 X 10 1/4 X 5 1/4 inches	296 inches

b. *Contents of MWO Kit:* See Table 8-3.

Table 8-3. MOD KIT 9399244 - PLGR Mount Assembly. Only items marked with an asterisk (*) are utilized on the M992A2 Field Artillery Ammunition Support Vehicle (FAASV).

Part Number and CAGEC	NSN	Nomenclature	Quantity	Figure No., Item No.
AN960C4 (88044)	5310-01-141-6672	Washer, Flat	2	8-1, 1
AN960C8L (88044)	5310-00-558-6207	Washer, Flat	4	8-1, 2
MS24693-C25 (96906)	5305-00-696-6495	Screw, Machine	2	8-1, 3
MS24693-C4 (96906)	5305-00-056-9961	Screw, Machine	4	8-1, 4
*MS3367-1-0 (96906)	5975-00-984-6582	Strap, Tiedown, Electrical	12	8-1, 5
MS51957-16 (96906)	5305-00-054-5650	Screw, Machine	2	8-1, 6
MS51957-46 (96906)	5305-00-054-6671	Screw, Machine	5	8-1, 7
MS51957-47 (96906)	5305-00-054-6672	Screw, Machine	4	8-1, 8
NAS1397P8DN (80205)	5340-01-421-8405	Clamp, Loop	2	8-1, 9
NAS620C8 (80205)	5310-00-069-5291	Washer, Flat	5	8-1, 10
*12987869		PLGR Mount	1	8-1, 14
*9399237-2		Receptacle	1	8-1, 11
*9399238-2		Tab	1	8-1, 12
*9399241		Marker	1	8-1, 13

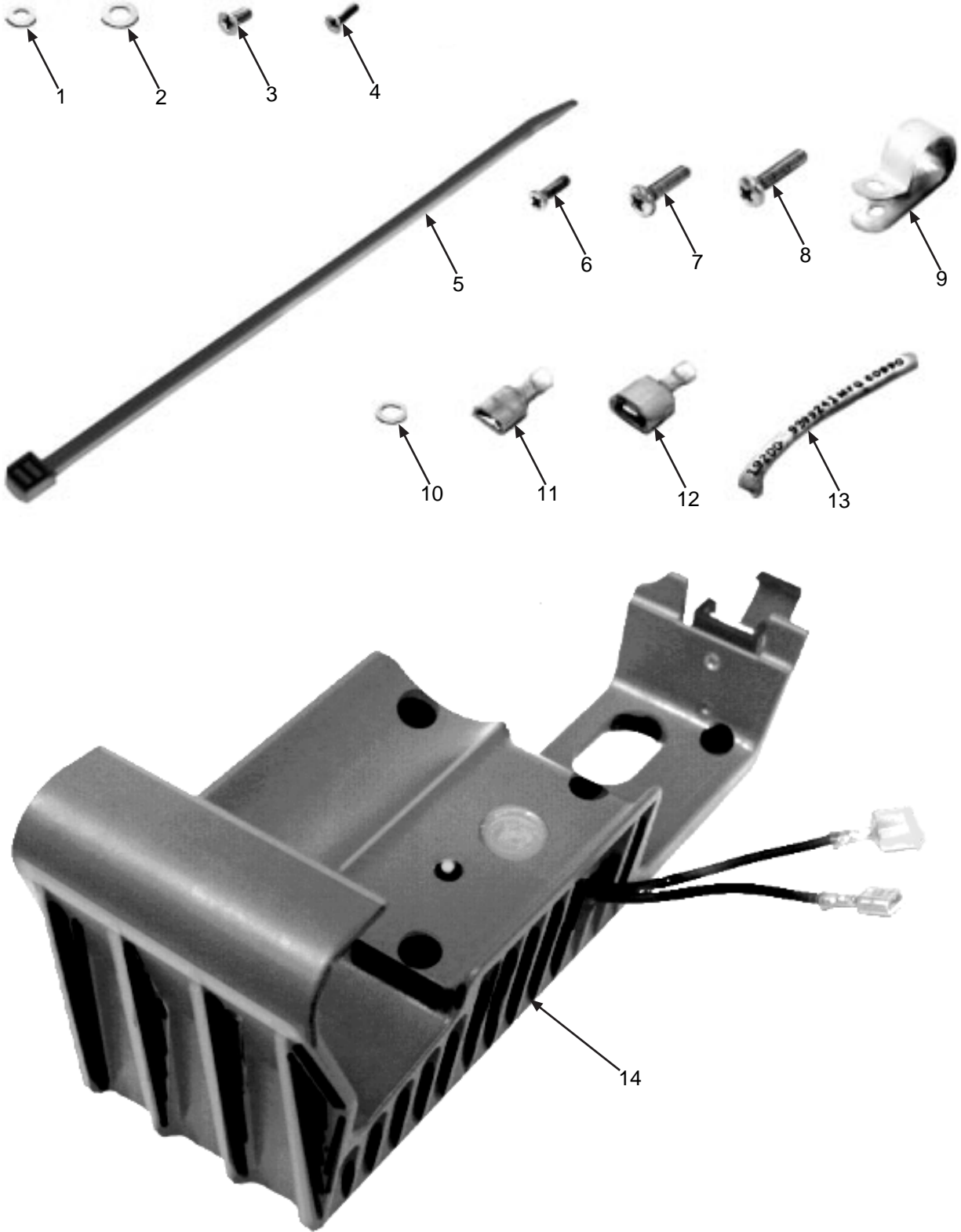


Figure 8-1. MOD KIT 9399244 - PLGR Mount Assembly

c. *Bulk and Expendable Material:* Not applicable.

d. *Parts Disposition:*

1. Dispose of the excess parts listed in Table 8-4 in accordance with AR 710-2 (*Inventory Management Supply Policy Below the Wholesale Level*), AR 735-5 (*Policies and Procedures for Property Accountability*), and local policy.
2. PLGR Mount 12967998 will be returned to the PM Paladin/FAASV Office for disposition.

Part Number and CAGEC	NSN	Nomenclature	Quantity	Item No.
M23053/5-105-9 (96906)		Marker	1	
AN960C4 (88044)	5310-01-141-6672	Washer, Flat	2	8-1, 1
AN960C8L (88044)	5310-00-558-6207	Washer, Flat	4	8-1, 2
MS24693-C25 (96906)	5305-00-696-6495	Screw, Machine	2	8-1, 3
MS24693-C4 (96906)	5305-00-056-9961	Screw, Machine	4	8-1, 4
MS51957-16 (96906)	5305-00-054-5650	Screw, Machine	2	8-1, 6
MS51957-46 (96906)	5305-00-054-6671	Screw, Machine	5	8-1, 7
MS51957-47 (96906)	5305-00-054-6672	Screw, Machine	4	8-1, 8
NAS1397P8DN (80205)	5340-01-421-8405	Clamp, Loop	2	8-1, 9
NAS620C8 (80205)	5310-00-069-5291	Washer, Flat	5	8-1, 10

9. SPECIAL TOOLS; TOOL KITS; JIGS; TEST, MEASUREMENT, AND DIAGNOSTIC EQUIPMENT (TMDE); AND FIXTURES REQUIRED. See Table 9-1.

Table 9-1. Special Tools and Tool Kits

Nomenclature	NSN	Quantity
Digital Multimeter	6625-01-139-2512 or Commercial Equivalent	1
Tape, Measuring	5210-00-234-6744 or Commercial Equivalent	1
Tool Kit, Automotive Electrical Repair	5180-00-422-8594 or Commercial Equivalent	1
Tool Kit, General Mechanic's	5180-00-177-7033 or Commercial Equivalent	1

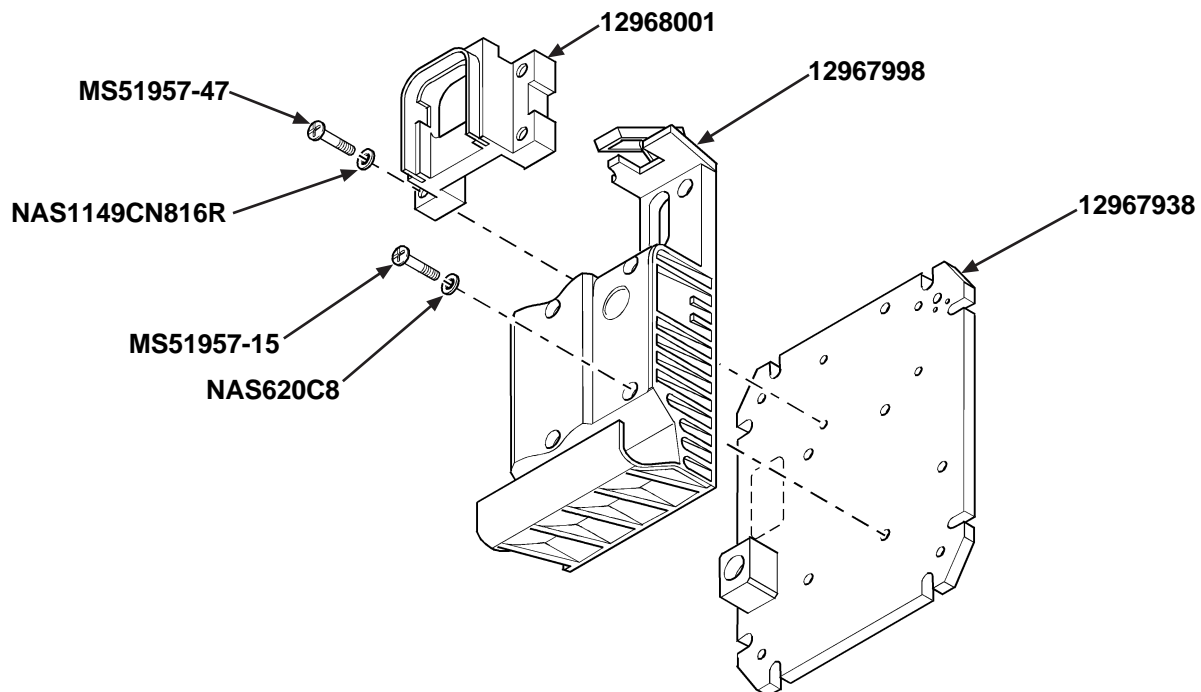
10. MODIFICATION PROCEDURES.

Equipment Conditions:

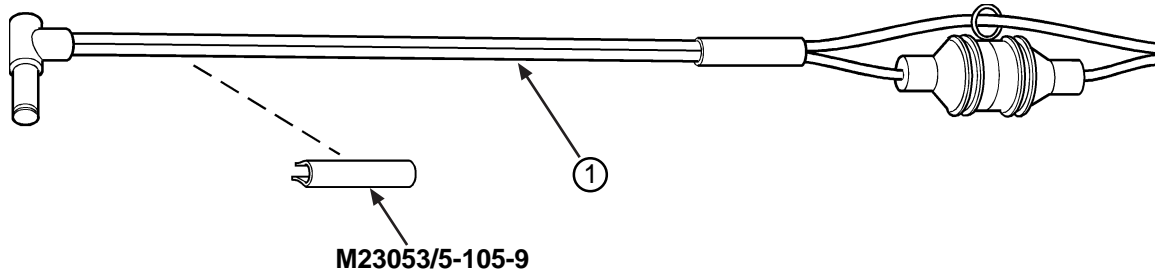
- Vehicle parked on level ground (refer to TM 9-2350-293-10).

a. Removal:

1. Set MASTER switch to OFF (refer to TM 9-2350-293-10).
2. Disconnect battery ground cables (refer to TM 9-2350-293-20-1).
3. Remove four screws (MS51957-47) and washers (NAS1149CN816R) and block and gasket (12968001) from mounting plate (12967938). Store screws, washers, and block and gasket for future use.
4. Remove five screws (MS51957-15) and washers (NAS620C8) and PLGR mount (12967998) from mounting plate (12967938). Store screws and washers for future use. Turn in PLGR mount to the PM Paladin/FAASV Office.



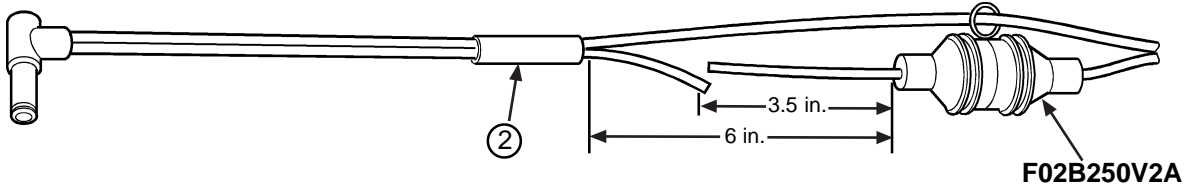
b. Rework of PLGR Power Cable:



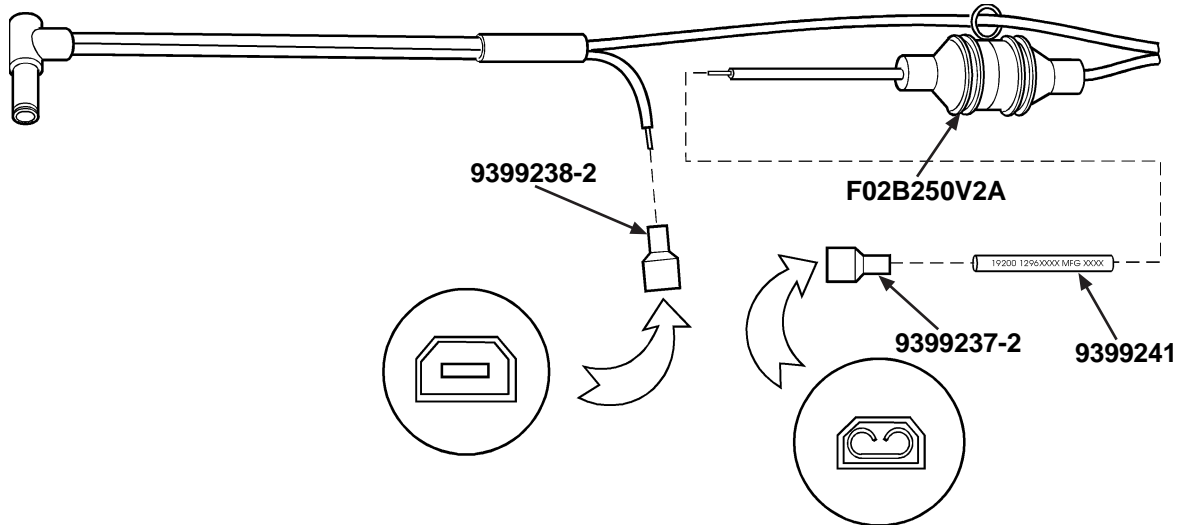
NOTE

Be careful not to damage power cable while removing marker.

1. Remove marker (M23053/5-105-9) from power cable (1). Set aside marker for disposition per paragraph 8d.



2. Slide tubing (2) six inches from fuse holder (F02B250V2A).
3. Identify the wire that has fuse holder (F02B250V2A). Cut that wire 3.5 inches from fuse holder.



4. Strip 1/4 inch of insulation from both ends of the cut wire.
5. Slide marker (9399241) (9399244) onto the cut wire coming from fuse holder (F02B250V2A). Heat-shrink the marker in accordance with MIL-C-63550.
6. Crimp receptacle (9399237-2) (9399244) onto cut wire coming from fuse holder (F02B250V2A).
7. Crimp tab (9399238-2) (9399244) to other end of cut wire.

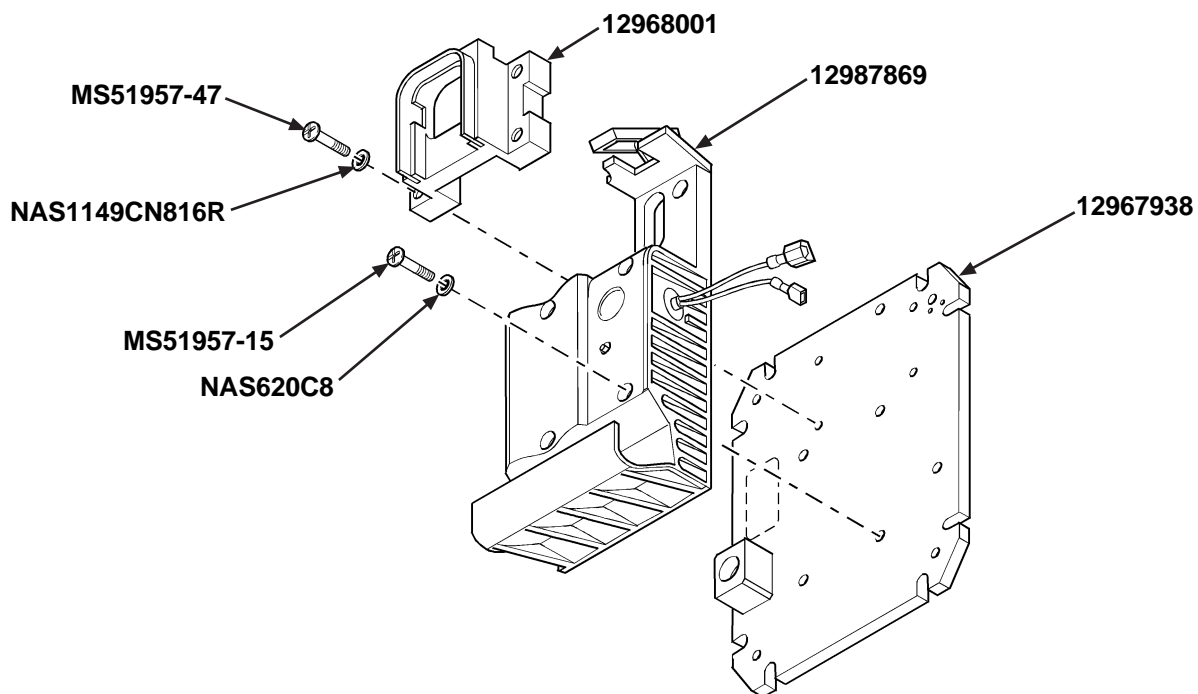
c. *Installation:*

1. Install new PLGR mount (12987869) (9399244) on mounting plate (12967938) with five screws (MS51957-15) and washers (NAS620C8).
2. Install block and gasket (12968001) on mounting plate (12967938) with four screws (MS51957-47) and washers (NAS1149CN816R).
3. Connect receptacle (9399237-2) and tab (9399238-2) to two leads on new PLGR mount (12987869).
4. Connect battery ground cables (refer to TM 9-2350-293-20-1).
5. Secure all loose wiring using electrical tiedown straps (MS3367-1-0) (9399244) as required.

NOTE

The remaining parts in the mod kit are not used for the FAASV.

6. Set aside all remaining parts in mod kit for disposition per paragraph 8d.



11. CALIBRATION REQUIREMENTS. Not applicable.

12. WEIGHT AND BALANCE DATA. Weight and balance are not significantly affected.

13. QUALITY ASSURANCE REQUIREMENTS.

- a. Turn MASTER switch to ON position.
- b. Using multimeter, place red lead of multimeter in center of power cable (9399241) and ground black lead.
- c. Push in switch on new PLGR mount (12987869) and check for 24 ± 3 V dc.
- d. Turn MASTER switch to OFF position.

14. RECORDING AND REPORTING OF THE MODIFICATION.

- a. *Records and Reports:* Record the modification on DA Form 2408-5, *Equipment Modification Record*, when a multiple-form assembled equipment logbook is applicable, or DA Form 2409, *Equipment Maintenance Log (Consolidated)*, as indicated in DA Pam 738-750, *Functional Users Manual for The Army Maintenance Management System (TAMMS)*, as contained in Maintenance Management Update. Also complete DA Form 2408-9, *Equipment Control Record*.
- b. *Marking Equipment:* Not applicable.
- c. *Identification Data:* Not applicable.

15. MATERIEL CHANGE (MC) NUMBER. This MWO is authorized by MC number 1-99-05-4558.

16. MODIFICATION IDENTIFICATION. This modification has been performed if there are two leads coming out from a hole on the right side of the PLGR mount.

By Order of the Secretary of the Army:

Official:

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



SANDRA R. RILEY

*Administrative Assistant to the
Secretary of the Army*

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DISTRIBUTION: To be stocked and distributed by the proponent.

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