

LIMITED URGENT

MWO effective date is 1 February 1991 and completion date is 1 August 1991.

MWO 11-5985-357-30-1

MODIFICATION WORK ORDER

**MODIFICATION OF ANTENNA GROUP OE-254/GRC
(NSN 5985-01-063-1574)**

Headquarters, Department of the Army, Washington, DC

1 February 1991

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 or DA Form 2028 (Recommended Changes to Publications and Blank Forms) to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: AMSEL-LC-LM-LT, Fort Monmouth, New Jersey 07703-5000. In either case, a reply will be furnished direct to you.

1. PURPOSE OF MODIFICATION.

The purpose of this modification is to extend the life expectancy of existing OE-254/GRC antenna support sleeves, mast sections, and mast and base assembly.

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2. PRIORITY.

This modification is classified as LIMITED URGENT as a result of an Operational Safety of Use/Flight Message 201800Z MARCH 1990. Operating restrictions provided therein remain in effect until this modification is applied.

3. END ITEM OR SYSTEM TO BE MODIFIED.

<u>Nomenclature</u>	<u>NSN</u>	<u>Part No.</u>	<u>CAGE</u>	<u>Serial No.</u>
Antenna Group OE-254/GRC	5985-01-063-1574	OE-254/GRC	80058	All

4. MODULES (COMPONENTS, ASSEMBLIES, SUBASSEMBLIES, BOARDS AND CARDS) TO BE MODIFIED. The following item, whether installed or in depot stock, shall be modified.

<u>Nomenclature</u>	<u>NSN</u>	<u>Part No.</u>	<u>Cage</u>	<u>Quantity</u>
Mast Assembly	5985-01-124-5430	AB-1244A/GRC	80058	1

5. PARTS TO BE MODIFIED. The following items, whether installed or in depot stock, shall be modified. Stocked parts shall be modified prior to issue and shall be marked so that it can be easily determined that modification has been accomplished.

<u>Nomenclature</u>	<u>NSN</u>	<u>Part No.</u>	<u>CAGE</u>	<u>Quantity</u>
Antenna Support Sleeve (upper)	5985-01-072-8016	SM-D-659286	80063	1
Antenna Support Sleeve (lower)	5985-01-072-8015	SM-D-659279	80063	1
Mast Section (Lower)	5985-01-072-8065	SM-C-659276	80063	5
Mast Section (upper)	5985-01-072-8066	SM-C-659283	80063	5
Mast and Base Assembly	5985-01-124-5431	A3002868	80063	1

6. APPLICATION.

a. Time compliance schedule. The effective date of this MWO is 1 February 1991 and its completion date is 1 August 1991.

b. Level of maintenance. Direct Support is authorized to apply this MWO.

Requirements

<u>Work Force/Skills</u>	<u>Man-hours</u>
One Direct Support Level Repairer	2.5

c. MWO to be applied prior to or concurrently with this modification 1
Not Applicable.

7. TECHNICAL PUBLICATIONS AFFECTED/CHANGED AS A RESULT OF THIS MWO.

a. TM 11-5985-357-13, 1 February 1991.

b. TM 11-5985-357-23P, 15 June 1988.

8. MWO KITS, PARTS, AND DISPOSITION.

a. Kits/Parts needed to apply the MWO. Not applicable.b. Contents of MWO kit. Not applicable.c. Bulk and expendable materials.

<u>NSN</u>	<u>NOMENCLATURE</u>	<u>CAGE</u>	<u>PART NO.</u>	<u>QUANTITY</u>
7520-00-973-1059	Black Felt Tip Marker (or equivalent)	81348	GG-M-00114	1

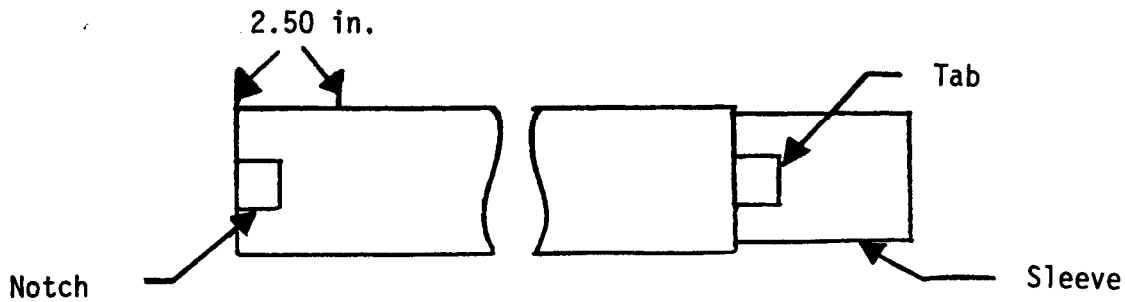
d. Parts Disposition Not applicable.9. SPECIAL TOOLS; JIGS; TEST MEASUREMENT, AND DIAGNOSTIC EQUIPMENT (TMDE); AND FIXTURES REQUIRED.

<u>NSN</u>	<u>NOMENCLATURE</u>	<u>CAGE</u>	<u>PART NO.</u>	<u>Quantity</u>
5180-00-605-0079	Tool Kit, Electronic Equipment TK-100/G	80058	TK100/G	1
	Pipe cutter			1
	Lathe (optional)			1

10. MODIFICATION PROCEDURE.

a. Disassembly/ Assembly. Refer to TM 11-5985-357-13 for OE-254/GRC antenna disassembly/ assembly instructions.

b. Inspection. Inspect antenna support sleeves and mast sections for stress cracks at the squared corners of the notch. Antenna support sleeves and mast sections with stress cracks greater than 2.50 inches or that are noticeably deformed or bent should be turned in for disposition and replaced. Antenna Support sleeves and mast sections with stress cracks that are less than 2.50 inches can modified.



ANTENNA SUPPORT SLEEVE AND MAST SECTION

11. Procedures

a. Antenna Support Sleeves and Mast Sections.

CAUTION

Do not attempt to cut the antenna support sleeve and mast section tubes with the pipe cutter.

NOTE

As an optional procedure, the antenna support sleeve and mast section tubes can be cut with a lathe, if available.

(1) Using a sharp pipe cutter, lightly score a guide cut line around each tube 2.50 inches from the notched end. Cut each tube using a hack saw. Ensure that each cut is made perpendicular to the antenna support sleeve and mast section to achieve a proper fit with the mating section. After cutting, remove burrs and sharp edge with a file.

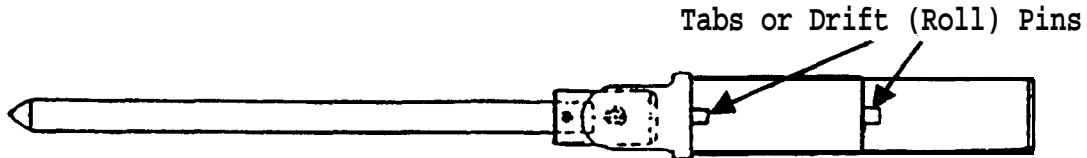
NOTE

Ensure that the cut end of each antenna support sleeve and mast section is free of any cracks.

(2) Inspect the tab on the lower antenna support sleeve and mast sections. Inspection will reveal one of two types of tabs. Remove the metal tabs by filing off the tabs with a metal file. The punched-out tabs require hammering back of the tabs. Tap the tab using a ballpeen hammer to just inside of the outer diameter of the lower antenna support sleeve or mast section.

NOTE

Take care when hammering the tabs not to punch them completely through, as this may induce a stress area.



MAST AND BASE ASSEMBLY

b. Mast and Base Assembly. Inspect the mast and base assembly. Inspection will reveal either the same types of tabs as described for the lower antenna support sleeve and mast sections, or metal drift pins. Remove the metal drift pins with a punch and hammer. Use the same method of modification for those with tabs, as described for the lower antenna antenna support sleeve and mast sections tabs.

c. Replace broken or unrepairable antenna support sleeves, mast sections, or mast base with modified antenna support sleeves, mast sections, or mast base.

11. CALIBRATION REQUIREMENTS. Not applicable.

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

13. QUALITY ASSURANCE REQUIREMENTS. Not applicable.

14. RECORDING AND REPORTING OF THE MODIFICATION.

a. Records and report forms. Prepare in accordance with DA Pam 738-750 as contained in Maintenance Management Update.

b. Completion of DA Form 2407 or DA Form 5504, Maintenance Request. After completing the DA Form 2407 or DA Form 5504, mail the NMP copy (copy 2) to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: AMSEL-LC-LM-PP, Fort Monmouth, New Jersey 07703-5000. Mail the control copy (copy 3) to Commander, US Army Depot System Command, ATTN: AMSDS-PM, Chambersburg, PA 17201, for PAC 98 (NonAIF Field Activities). Forward the Organizational copy (copy 4) as directed by local commander.

c. Marking equipment. Specific marking instructions for the reidentification of modified items are:

(1) Antenna Group OE-254/GRC or Mast Assembly. After a complete antenna has been modified, mark the carrying case. Using a black felt tip marker:

(a) Print the word "MODIFIED" on the front cover of the carrying case in the space which is located below the manufacturer's CAGE number and above the serial number.

(b) Mark an "X" across the entire yellow parts list label (P/N SM-D-944782) on the inside cover of the carrying case. (The part numbers are now as listed in paragraph 14.d.)

(c) Mark an "X" across the ERECTION procedure paragraph and Figure 3 on the yellow assembly and erection procedure label (P/N SM-D-944780) on the inside cover of the carrying case. (The two person erection procedure is deleted in TM 11-5985-357-13 dated 1 February 1991.)

(2) Antenna Support Sleeve or Mast Section. Rubber stamp, if available, or scratch the word "MODIFIED" in the CARC paint on the bottom side of each tube.

(3) Mast and Base Assembly. Rubber stamp, if available, or scratch the word MODIFIED in the CARC painted part of the base.

d. Identification data.

	<u>Nomenclature</u>	<u>CAGE and Part Number</u>	<u>NSN</u>
Before Mod.	Antenna Group OE-254/GRC	80058 / OE-254/GRC	5985-01-063-1574
After Mod.		***NO CHANGES***	
Before Mod.	Mast Assembly	80058 / AB-1244A/GRC	5985-01-124-5430
After Mod.	Mast Assembly	80058 / AB-1244B/GRC	5985-01-324-3461
Before Mod.	Antenna Support sleeve (Upper)	80063 / SM-D-659286	5985-01-072-8016
After Mod.	Antenna Support sleeve (Upper)	80063 / A3159902	5985-01-326-5533
Before Mod.	Antenna Support sleeve (Lower)	80063 / SM-D-659279	5985-01-072-8015
After Mod.	Antenna Support Sleeve (Lower)	80063 / A3159895	5985-01-327-1448
Before Mod.	Mast Section (Lower)	80063 / SM-C-659276	5985-01-0-8065

After Mod.	Mast Section (Lower)	80063 / A3159892	5985-01-324-3462
Before Mod.	Mast Section (Upper)	80063 / SM-659283	5985-01-072-8066
AFTER Mod.	Mast Section (Upper)	80063 / A3159899	5985-01-324-3463
Before Mod.	Mast and Base Assembly	80063 / A3002868	5985-01-124-5431
After Mod.	Mast and Base Assembly	80063 / A3159890	5985-01-324-3464

15. MATERIEL CHANGE (MC) NUMBER. This MWO is authorized by MC No. 1-90-07-0017.

16. MODIFICATION IDENTIFICATION. This MWO consists of cutting 2.50 inches off the notched end of the antenna support sleeves and mast sections; filing off the metal abs or hammering in the punched-out tabs on the lower antenna support sleeve, mast sections, and mast and base assembly; and punching out the metal drift pins on the mast and base assembly that does not have metal tabs or punched-out tabs.

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 12-51-E, block 2504, Operator, Unit, and Direct Support/General Support Maintenance requirements for MWO 11-5985-357-30-1.

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