TECHNICAL MANUAL

UNIT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST

FOR

MULTIPLEXER
TD-660/G (NSN 5805-00-930-8079)
TD-660A/G (NSN 5820-00-928-3382)
TD-660B/G (NSN 5820-00-928-3382)
AND TD-660C/G

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HEADQUARTERS, DEPARTMENT OF THE ARMY
15 FEBRUARY 1990

Technical Manual

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, 15 February 1990

No. 11-5805-382-20P

UNIT MAINTENANCE REPAIR PARTS
AND SPECIAL TOOLS LIST
FOR

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

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In either case, a reply will be furnished direct to you.

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^{*}This manual supersedes TM 11-5805-382-20P, 21 April 1978.

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SECTION I INTRODUCTION

1. Scope

This manual lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of unit maintenance of the TD-660/G, TD660A/G, TD660B/G and TD-660C/G. It authorizes the requisitioning, issue, and disposition of spares, repair parts, and special tools as indicated by the source, maintenance and recoverability (SMR) codes.

2. General

This Repair Parts and Special Tools List is divided into the following sections:

a. Section II. Repair Parts List. A list of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending numeric sequence, with the parts in each group listed in ascending item number sequence. Figure numbers are listed directly beneath the group header.

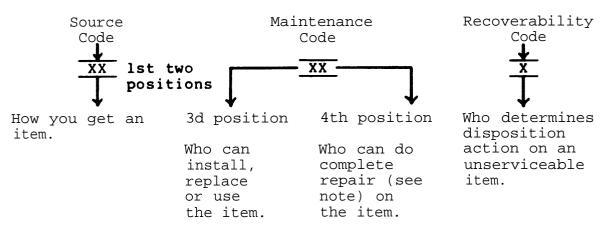
<u>b.</u> <u>Section III.</u> special Tools List. Not applicable.

c. Section IV. Cross-Reference Indexes. A list, in National item idefitification number (NIIN) seaquence, of all National stock numbered items appearing in the listing, followed by a list in alphameric sequence of all part numbers appearing in the listings. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance. The figure number and item number index lists figure and item numbers in numeric sequence and cross-references National stock number, Federal Supply Code for Manufacturer and part numbers.

3. Explanation of Columns (Section II and III)

a. Item No. (Column (1)). Indicates the number used to identify items called out in the illustration.

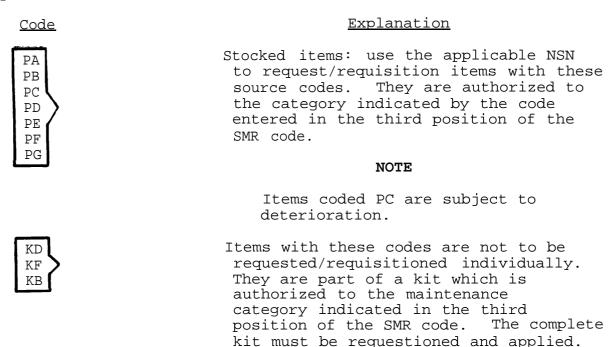
<u>b. SMR Code (Column (2)).</u> The source, maintenance, and recoverability (SMR) code is a five-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instructions, as shown in the following breakout:



NOTE

Complete repair: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "repair" function in a use/user environment in order to restore serviceability to a failed item.

(1) <u>Source code.</u> The source code tells you how to get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follows:



Code

MO - Made at org/AVUM category

- MF Made at DS/AVIM category
- MH Made at GS category
- ML Made at
 Specialized
 Repair
 Activity
 (SRA)
- MD Made at Depot
- AO Assembled by org/AVUM category
- AF Assembled by DS/AVIM category
- AH Assembled by GS category
- AL Assembled by SRA
- AD Assembled by Depot

Explanation

Items with these codes are not to be requested/requisitioned individually. They must be made from bulk material which is identified by the part number in the description and usable on code (UOC) column and listed in the Bulk Material group of the repair parts list. If the item is authorized to you by the third position code of the SMR code, but the source code indicates it is made at a higher category, order the item from the higher category of maintenance.

Items with these codes are not to be requested/requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the category of maintenance indicated by the source code. If the third position code of the SMR code authorizes you to replace the item, but the source code indicates the item is assembled at a higher category, order the item from the higher category of maintenance.

Code

Explanation

- XA Do not requisition an "XA" coded item. Order its next higher assembly.
- xc Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturer's part number.
- XD Item is not stocked. Order an "XD" coded item through normal supply channels using the FSCM and part number given, if no NSN is available.

NOTE

Cannibalization or controlled exchange, when authorized, may be used as a source of supply for items with the above source codes, except for those source coded "XA" or those aircraft support items restricted by requirements of AR 750-1.

- (2) <u>Maintenance code.</u> Maintenance codes tell you the category of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the SMR code as follows:
- <u>(a)</u> The maintenace code entered in the third position tells you the lowest maintenance category authorized to remove, replace, and use an item. The maintenance code entered in the third position will indicate authorization to one of the following categories of maintenance.

Code

Application/Explanation

- C Crew or operator maintenance done within organizational or aviation maintenance.
- 0 Organizational or aviation unit category can remove, replace, and use the item.
- F Direct support or aviation intermediate category can remove, replace, and use the item.
- H General support category can remove, replace, and use the item.
- L Specialized repair activity can remove, replace, and use the item.
- D Depot category can remove, replace, and use the item.
- (b) The maintenance code entered in the fourth position tells whether or not the item is to be repaired and identifies the lowest maintenance category with the capability to do complete repair (i.e., perform all authorized repair functions). This position will contain one of the following maintenance codes.

NOTE

Some limited repair may be done on the item at a lower category of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes.

<u>Code</u>

Application/Explanation

- O Organizational or aviation unit is the lowest category that can do complete repair of the item.
- F Direct support or aviation intermediate is the lowest category that can do complete repair of the item.
- H General support is the lowest category that can do complete repair of the item.
- L Specialized repair activity (designate the specialized repair activity) is the lowest category that can do complete repair of the item.
- D Depot is the lowest category that can do complete repair of the item.

Code <u>Appllication/Explanation</u>

- Z Nonreparable. No repair is authorized.
- B No repair is authorized. (No parts or special tools are authorized for the maintenance of a "B" coded item.)

 However, the item may be reconditioned by adjusting, lubricating, etc., at the user category.
- (3) <u>Recoverability code.</u> Recoverability codes are assigned to items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the SMR Code as follows:

<u>Recoverability</u> codes

Application/Explanation

- Z Nonreparable item. When unserviceable, condemn and dispose of the item at the category of maintenance shown in the third position of SMR code.
- O Reparable item. When uneconomically reparable, condemn and dispose of the item at organizational or aviation unit category.
- F Reparable item. When uneconomically reparable, condemn and dispose of the item at direct support or aviation intermediate category.
- H Reparable item. When uneconomically reparable, condemn and dispose of the item at general support category.
- D Reparable item. When beyond lower category repair capability, return to depot. Condemnation and disposal of item not authorized below depot category.
- L Reparable item. Condemnation and disposal not authorized below specialized repair activity (SRA).
- A Item requires special handling or condemnation procedures because of specific reasons (e.g., precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals\directives for specific instructions.
- $\underline{\text{c.}}$ FSCM (Column (3)). The Federal Supply Code for Manufacturer (FSCM) is a 5-digit numeric code which is used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.
- <u>d. Part Number (Column (4)).</u> Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity, which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

NOTE

When you use an NSN to requisition an item, the item you receive may have a different part number from the part ordered.

- <u>e.</u> <u>Description and Usable on Code (UOC) Column (5)).</u> This column includes the following information.
- (1) The Federal item name and, when required, a minimum description to identify the item.
 - (2) Usable on code, when applicable (para 5).
- (3) The statement "END OF FIGURE" appears just below the last item description in Column (5) for a given figure in both section II and section III.
- \underline{f} . Oty (Column (6)). Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that the quantity is variable and the quantity may vary from application to application.
- 4. Explanation of Columns (Section IV)

a. National Stock Number (NSN) Index.

- (1) Stock number column. This column lists the NSN by National item identification number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN. When using this column to locate an item, ignore the first four digits of the NSN. When requisitioning items use the complete NSN $(13\ digits)$.
- (2) $\underline{\text{Fiq. column.}}$ This column lists the number of the figure where the item is identified/located. The illustrations are in numerical sequence in sections II and III.
- (3) <u>Item column.</u> The item number identifies the item associated with the figure listed in the adjacent Fig. column. This item is also identified by the NSN listed on the same line.
- <u>b. Part Number Index.</u> Part numbers in this index are listed by part number in ascending alphameric sequence.
- (1) $\underline{\text{FSCM column.}}$ This column lists the Federal supply code for manufacturer (FSCM).
- (2) <u>Part number column.</u> This column indicates the part number assigned to the item.

- (3) <u>Stock number column.</u> This column lists the National stock number for the associated part number and manufacturer identified in the part number and FSCM columns to the left.
- (4) <u>Fig. column.</u> This column lists the number of the figure where the item is identified/located in sections II and III.
- (5) <u>Item column.</u> The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

c. Figure and Item Number Index.

- (1) <u>Fig. column.</u> This column lists the number of the figure where the item is identified/located in sections II and III.
- (2) $\underline{\text{Item column.}}$ The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column.
- (3) <u>Stock number column.</u> This column lists the National stock number for the item.
- (4) <u>FSCM column.</u> The Federal supply code for manufacturer (FSCM) is a 5-digit numeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.
- (5) <u>Part number column.</u> Indicates the primary number used by the manufacturer (individual, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of item.

5. Special Information

<u>a.</u> <u>Usable on Code.</u> The usable on code appears in the lower left corner of the description column heading. Usable on codes are shown as "UOC" in the description column (justified left) on the first line applicable item description nomenclature. Uncoded items are applicable to all models. Identification of the usable on codes used in this RPSTL are:

<u>Code</u>	<u>Used on</u>
ATM	TD-660/G
AUY	TD-660A/G
DHF	TD-660B/G
HYX	TD-660C/G

- <u>b.</u> <u>Associated Publications.</u> The publications listed below pertain to the TD-660()s and their components
- TM 11-5805-382-12, Multiplexer TD-660/G, TD-660A/G, TD-660B/G, and TD-660C/G
- <u>c. Illustrations Listings.</u> The illustrations in this RPSTL are identical to those published in TM 11-5805-382-34P. Only those parts coded "C" or "O" in the third position of the SMR code are listed in the tabular listing; therefore, ther may be a break in the item number sequence, figure number and page number. Only illustrations containing organizational or aviation unit authorized items appear in this RPSTL.
- d. National Stock Numbers. National stock Numbers (NSN's) that are missing from P source coded items have been applied for and will be added to this TM by future change/revision when they are entered in the Army Master Data File (AMDF). Until the NSN's are established and published, submit exception requisitions to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: AMSEL-LC-MM, Fort Monmouth, NJ 07703-5000 for the part required to support your equipment.
- 6. How to Locate Repair Parts

a. When National stock number or part number is not known.

- (1) First. Using the table of contents, determine the assembly group or subassembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and listings are divided into the same groups.
- (2) <u>Second.</u> Find the figure covering the assembly group or subassembly group to which the item belongs.
- (3) <u>Third.</u> Identify the item on the figure and note the item number.
- (4) Fourth. Refer to the Repair Parts List for the figure to find the part number for the item number noted on the figure.
- (5) $\underline{\text{Fifth.}}$ Refer to the Part Number Index to find the NSN, if assigned.

b. When National stock number or part number is known.

- (1) First. Using the index of National stock numbers and part numbers, find the pertinent National stock number or part number. The NSN index is in National item identification number (NIIN) sequence (para 4 \underline{a} (1)). The part numbers in the part number index are listed in ascending alphameric sequence (para 4 \underline{b}). Both indexes cross-reference you to the illustration figure and item number of the item you are looking for.
- (2) <u>Second</u>. After finding the figure and item number, verify that the item is the one you're looking for, then locate the item number in the repair parts list for the figure.

7. Abbreviations

Not applicable.

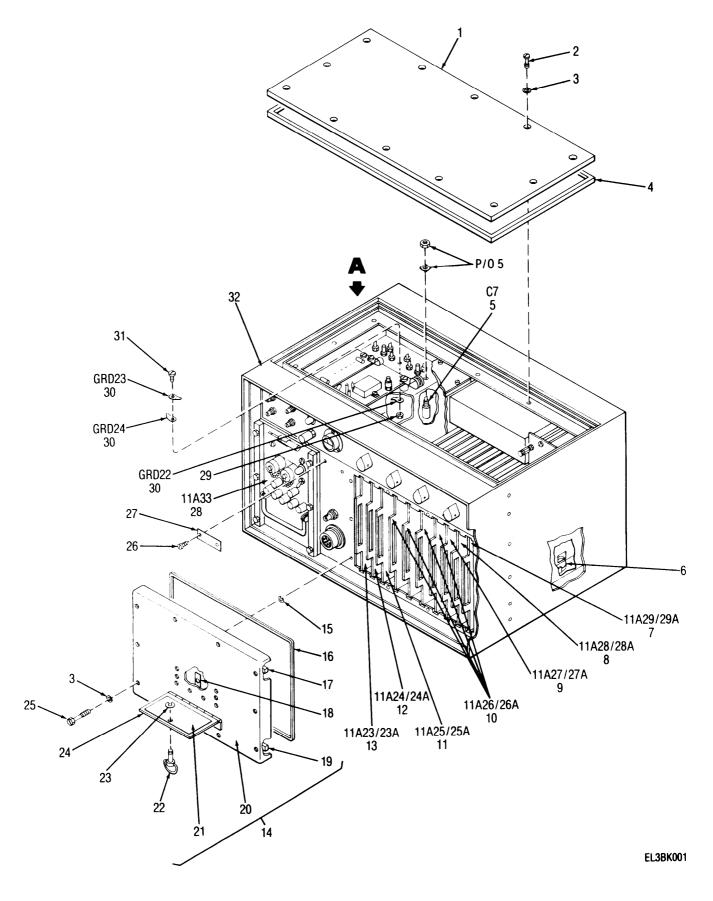
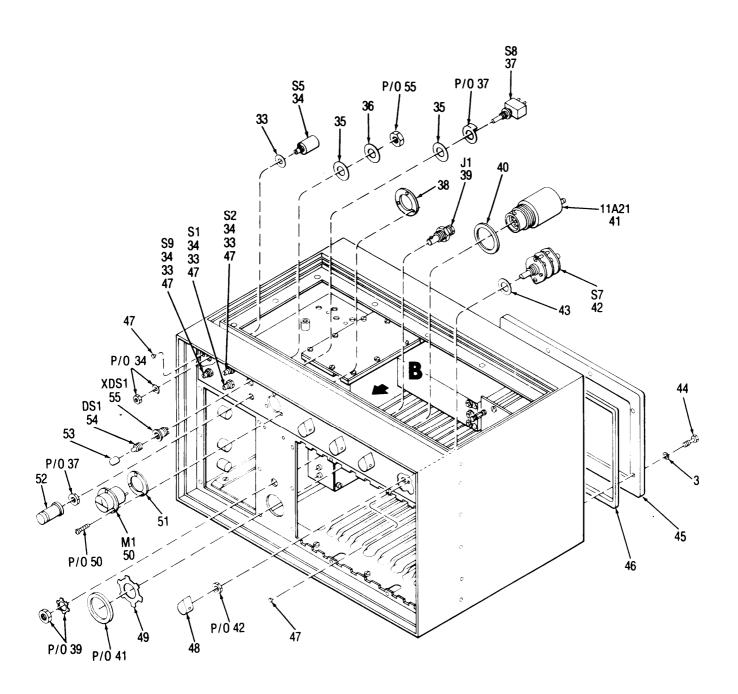


Figure 1. Multiplexer TD-660/G, TD-660A1G, TD-660BfG, and TD-660C/G (Sheet 1 of 2).



EL3BK002

Figure 1. Multiplexer TD-660/G, TD-660A/G, TD-660B/G, and TD-660C/G (Sheet 2 of 2).

SECTIO	ON II			TM11-5805-382-20P	
(1) ITEM	(2) SMR	(3)	(4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				GROUP 00 MULTIPLEXERS TD-660/G, TD-660A/G, TD660B/G & TD-660C/G	
				FIGURE 1	
28	РАОНН	80063	SM-D-428361	POWER SUPPLY 11A33 (FOR PARTS BREAKDOWN SEE FIGURE 12)	1
48	PAOZZ	96906	MS91528-1K2B	KNOB	4
52	PAOZZ	80063	SM-B-525131	BOOT, DUST AND MOIST	1
53	PAOZZ	81349	LC27RT2	LENS, LIGHT	1
54	PAOZZ	96906	MS25237-327	LAMP, INCANDESCENT	1

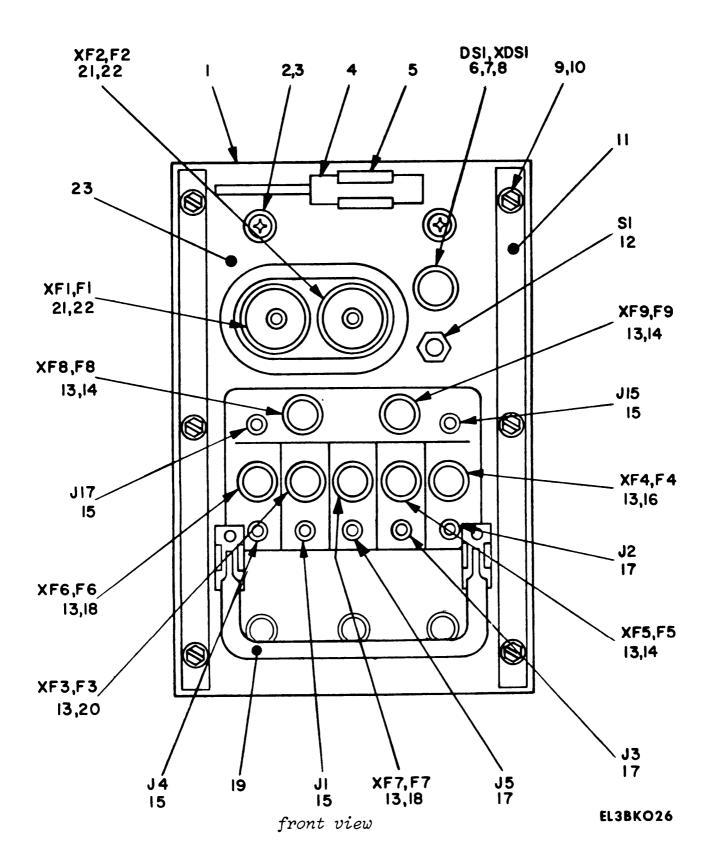


Figure 12. Power Supply

SECTION	I II			TM11-5805-382-20P	
(1) ITEM	(2) SMR	(3)	(4) PART	(5)	(6)
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODE (UOC)	QTY
				GROUP 13 POWER SUPPLY	
				FIGURE 12	
4	PAOZZ	80063	SM-B-730031	ALIGNMENT TOOL, ELEC	4
6	PAOZZ	81349	M15098/11-001	LAMP,GLOW	1
8	PAOZZ	81349	LC28YN2	LENS, LIGHT	1
14	PAOZZ	81349	FM02A125V5/10A	FUSE, CARTRIDGE	3
16	PAOZZ	81349	FM02A125V 3/4A	FUSE, CARTRIDGE	1
18	PAOZZ	81349	FM02A125V1-1/2A	FUSE, CARTRIDGE	2
20	PAOZZ	81349	FM02125V 3A	FUSE, CARTRIDGE	1
22	PAOZZ	81349	F02A250V1A	FUSE, CARTRIDGE	2

SECTION IV TM11-5805-382-20P

CROSS-REFERENCE INDEXES

NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIG.	ITEM	STOCK	NUMBER	FIG.	ITEM
6240-00-155-7836	1	54				
5930-00-220-5705	1	52				
5920-00-280-8342	12	22				
6210-00-451-8323	12	8				
6210-00-482-6281	1	53				
5355-00-556-0145	1	48				
6240-00-892-4420	12	6				
5920-00-905-1831	12	16				
5920-00-926-7445	12	20				
5920-00-929-7899	12	18				
5920-00-936-3946	12	14				
5805-01-012-5444	1	28				

SECTION IV TM11-5805-382-20P

CROSS-REFERENCE INDEXES

		PART NUMBER INDEX		
FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
81349	FM02A125V 3/4A	5920-00-905-1831	12	16
81349	FM02A125V1-1/2A	5920-00-929-7899	12	18
81349	FM02A125V5/10A	5920-00-936-3946	12	14
81349	FM02125V 3A	5920-00-926-7445	12	20
81349	F02A250V1A	5920-00-280-8342	12	22
81349	LC27RT2	6210-00-482-6281	1	53
81349	LC28YN2	6210-00-451-8323	12	8
96906	MS25237-327	6240-00-155-7836	1	54
96906	MS91528-1K2B	5355-00-556-0145	1	48
81349	M15098/11-001	6240-00-892-4420	12	6
80063	SM-B-525131	5930-00-220-5705	1	52
80063	SM-B-730031		12	4
80063	SM-D-428361	5805-01-012-5444	1	28

SECTION IV TM11-5805-382-20P

CROSS-REFERENCE INDEXES

5920-00-280-8342

12 22

FIGURE AND ITEM NUMBER INDEX FIG. ITEM STOCK NUMBER FSCM PART NUMBER 1 28 5805-01-012-5444 80063 SM-D-428361 96906 MS91528-1K2B 1 5355-00-556-0145 48 80063 1 52 5930-00-220-5705 SM-B-525131 1 53 6210-00-482-6281 81349 LC27RT2 96906 MS25237-327 6240-00-155-7836 1 54 80063 SM-B-730031 12 4 6240-00-892-4420 12 6 81349 M15098/11-001 81349 12 8 6210-00-451-8323 LC28YN2 81349 81349 12 14 5920-00-936-3946 FM02A125V5/10A 5920-00-905-1831 12 16 FM02A125V 3/4A 12 5920-00-929-7899 81349 FM02A125V1-1/2A 18 12 20 5920-00-926-7445 81349 FM02125V 3A

81349 F02A250V1A

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IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

For item 2, change the NSN to read: 5835-00-134-9186. Reason: Accuracy.

Identify the cover on the junction box (item no. 5). Reason: It is a separate item and s not called out on figure 19.

Add the cover of the junction box as an item in the listing for figure 19. Reason: Same as above





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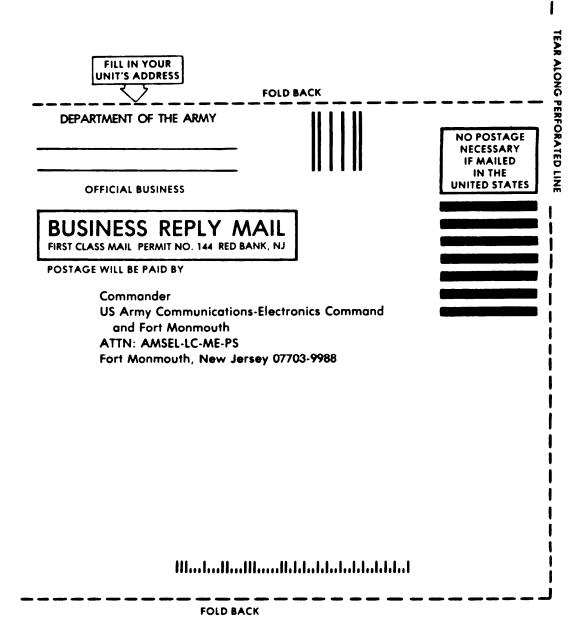
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CARL E. VUONO General, United States Army Chief of Staff

Official:

WILLIAM J. MEEHAN II

Brigadier General, United States Army The Adjutant General

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To be distributed in accordance with DA Form 12-51 unit requirements for TD-660/G.

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