TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST (INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS) FOR

MULTIPLEXER TD-202/U (NSN 5805-00-884-2176) (EIC: HFS)

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HEADQUARTERS, DEPARTMENT OF THE ARMY
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Technical Manual

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HEADQUARTERS DEPARTMENT OF THE ARMY Washington, DC, 1 August 1992

Organizational Maintenance Repair Parts and Special Tools List (Including Depot Maintenance Repair Parts and Special Tools) for MULTIPLEXER T D- 202/U

(NSN 5085-00-884-2176) (EIC: HFS)

Current as of 1 May 1992

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

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^{*} This manual supersedes TM 11-5805-367-20P-1 -1, dated 4 January 1978.

CHAPTER 1 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 the performance of organizational maintenance of the Multiplexer TD-202/U. It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by the source, maintenance, and recoverability (SMR) codes.

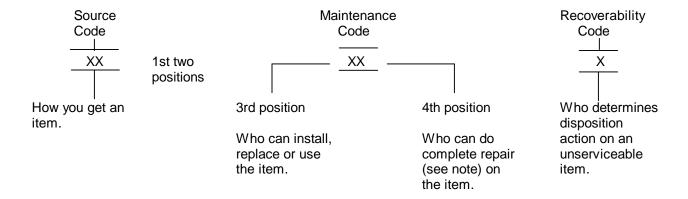
2. GENERAL

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. This list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending item number sequence, with the parts in each group listed in ascending item number sequence. Figure numbers are listed directly beneath the group header. Bulk materials are listed in item name sequence. Repair part kits are listed separately in their own functional group within Section II. Repair parts for reparable special tools are also listed in this section. Items listed are shown on the associated illustration.
 - b. Section III. Special Tools List. Not applicable.
- c. Section IV Cross-Reference Indexes. A list, in National item identification number (NIIN) sequence, 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, Commercial and Government Entity Code, 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 illustrations.
- b. SMR Code (Column (2)). The source, maintenance, and recoverability (SMR) code is a five-position code containing supply/requisitioning information, maintenance category authorization criteria and disposition instruction, 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) *Source code*. 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 Explanation

PA PB PC PD PE PF PG

> KD KF KB

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

AF - Assembled by DS/AVIM category

AH - Assembled by GS

AL - Assembled by SRA

AD - Assembled by Depot

Stocked items: use the applicable NSN to request requisition items with these source codes. They are authorized to the category indicated by the code entered in the third position of the SMR code.

NOTE

Items coded PC are subject to deterioration.

Items with these codes are not to be requested/ requisitioned individually. They are part of a kit which is authorized to the maintenance category indicated in the third position of the SMR code. The complete kit must be requisitioned and applied.

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.
- XB If an "XB" item is not available from salvage, order it using the CAGEC and part number given.
- 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 CAGEC 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) Maintenance code. 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:
- (a) The maintenance 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.
- O 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.

Code

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. Z Nonrepairable. No repair is authorized.
- B No repair is authorized. (No parts or special tools are assigned for the maintenance of a "B" coded item.) However, the item may be reconditioned by adjusting, lubricating, etc., at the user category.
- (3) Recoverability code. 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:

Recoverability

Code

Application/Explanation

- Z Nonrepairable 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 repairable, condemn and dispose of the item at organizational or aviation unit category.

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Recoverability

Code

Application/Explanation

- F Reparable item . When uneconomically repairable, condemn and dispose of the item at direct support or aviation intermediate category.
- H Repairable item. When uneconomically repairable, condemn and dispose of the item at general support category.
- D Repairable item. When beyond lower category repair capability, return to depot. Condemnation and disposal of item not authorized below depot category.
- L Repairable 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.
- c. CAGEC (Column 3)). The Commercial and Government Entity Code (CAGEC) is a 5-digit numeric code which is used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.
- d. Part Number (Column 4)). 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.

- e. Description and Usable on Code (UOC) (Column (5)). This column includes the following information.
- (1) The Federal item name and, when required, a minimum description to identify the item.
- (2) The physical security classification of the item is indicated by the parenthetical entry (insert applicable physical security classification abbreviation, e.g., Phy Sec C1 (C) Confidential, Phy Sec C1 (S) Secret, Phy Sec C1 (T) Top Secret).
 - (3) Items that are included in kits and sets are listed below the name of the kit or set.
 - (4) Spare/repair parts that make up an assembled item are listed immediately following the assembled item line entry.
 - (5) Part numbers for bulk materials are referenced in this column in the line entry for the item to be manufactured/fabricated.
- (6) When the item is not used with all serial numbers of the same model, the effective serial numbers are shown on the last line of the description (before UOC).
 - (7) Usable on code, when applicable (para 5).
- (8) The statement "END OF FIGURE" appears just below the last item description in Column (5) for a given figure in both section 11 and section III
- f. Qty (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) 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) Fig. column. This column lists the number of the figure where the item is identified/located. The illustrations are in numerical sequence in sections 11 and III
- (3) *Item column* 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.
 - b. Part Number Index. Part numbers in this index are listed by part number in ascending alphameric sequence.
 - (1) CAGEC column. This column lists the Commercial and Government Entity Code (CAGEC).
 - (2) Part number column. This column indicates the part number assigned to the item.
- (3) Stock number column This column lists the National stock number for the associated part number and manufacturer identified in the part number and CAGEC columns to the left.
 - (4) Fig. column. This column lists the number of the figure where the item is identified/located in sections II and III
- (5) *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.
 - c. Figure and Item Number Index.
 - (1) Fig. column. This column lists the number of the figure where the item is identified/located in sections II and III
- (2) *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) Stock number column. This column lists the National stock number for the item.
- (4) CAGEC column. The Commercial and Government Entity Code (CAGEC) is a 5 digit numeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.
- (5) Part number column. 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 items.

5. SPECIAL INFORMATION

a. Associated Publications. The publications listed below pertain to the Multiplexer TD-202/U and its components:

TM 11-5805-367-12 Multiplexers TD-202/U, TD-203/U, TD-204/U and TD-353/U; Restorer,

Pulse Form 206/U, and Converter, Telephone Signal CB-1548/G and $\,$

CB-1548A/G

TM 11-5805-367-34P-1-1 Multiplexer TD-202/U

- b. Illustrations Listing. The illustrations in this RPSTL are identical to those published in TM 11-5805-367-34P-1-1. Only those parts coded "C" or "O" in the third position of the SMR code are listed in the tabular listing; therefore, there 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.
- c. 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, U S Army Communications-Electronics Command and Fort Monmouth, ATTN: AMSEL-LC-MM, Fort Monmouth, NJ 07703-5007 for the part required to support your equipment.

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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) Second. Find the figure covering the assembly group or subassembly group to which the item belongs.
 - (3) *Third*. Identify the item on the figure and note the item number.
 - (4) Fourth. Refer to the Repair Parts Lists for the figure to find the part number for the item number noted on the figure.
 - (5) 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 4a(1)). The part numbers in the part number index are listed in ascending alphameric sequence (para 4b). Both indexes cross-reference you to the illustration figure and item number of the item you are looking for.
- (1) Second. 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.

TM 11-5805-367-20P-1-1

ITEM NO	SMR CODE CAGEC	PART NUMBER	DESCRIPTION AND USABLE ON CODES (UOC) QTY
			GROUP 00 MULTIPLEXER TD-202/U
			FIGURE 1
6 PAOL	L 80063 SM-E-527005		POWER SUPPLY1
8 PAOZ	Z 80063 SM-D-527010		MULTIPLEXER SUBASSE1
9 XBOZ	Z 80063 SM-D-529516		MULTIPLEXER SUBASSE1
10 XBOZ	ZZ 80063 SM-D-527022		MULTIPLEXER SUBASSE1
11 XBOL	L 80063 A3010803		PANEL, ORDER-WIRE1
12 XBOL	L 80063 SM-D-529510		MULTIPLEXER SUBASSE1
13 XBOZ	ZZ 80063 SM-D-529519		MULTIPLEXER SUBASSE1
14 XBOL	L 80063 SM-D-529513		MULTIPLEXER SUBASSE1
15 PAOZ	Z 96906 MS25237-327		LAMP, INCANDESCENT2
16 XBOZ	ZZ 80063 SM-B-526677		LIGHT, INDICATOR2
18 PAOZ	Z 80204 C7A		LAMP, GLOW1
19 PAOZ	Z 72619 137-7336-0933-20		LIGHT,INDICATOR1
	3		
21 PAOZ	Z 81349 F02A250V3/4A		FUSE. CARTRIDGE2
103 PAO	ZZ 96906 MS21044C31.		NUT. SELF-LOCKING. HE2
106 XBO	ZZ80063 SM-B-527613		PIN, GUIDE2

END OF FIGURE

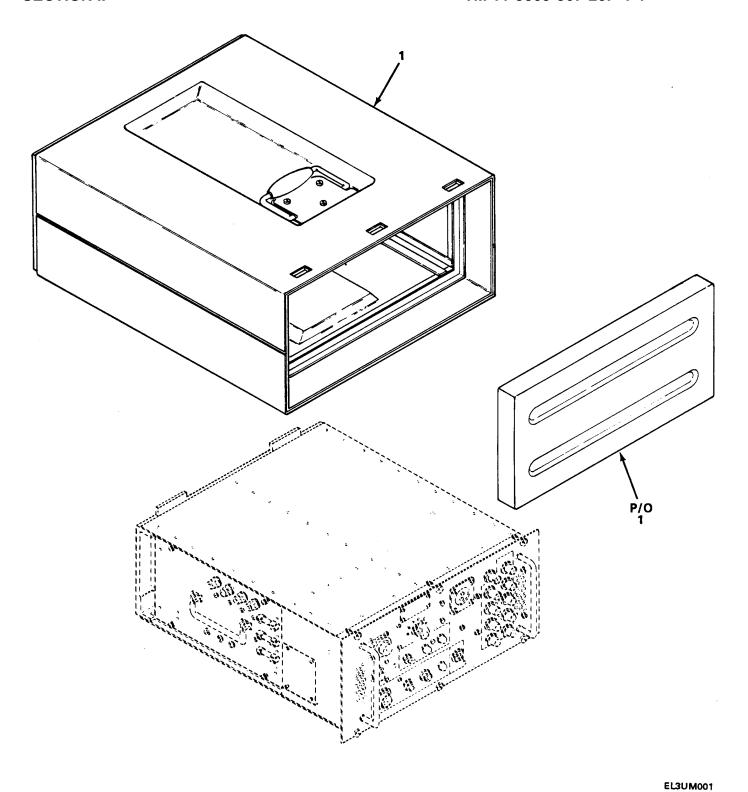


Figure 1. Multiplexer TD-202/U (Sheet 1 of 10).

1

EL3UM002

TM 11-5805-367-20P-1-1

Figure 1. Multiplexer TD-202/U (Sheet 2 of 10).

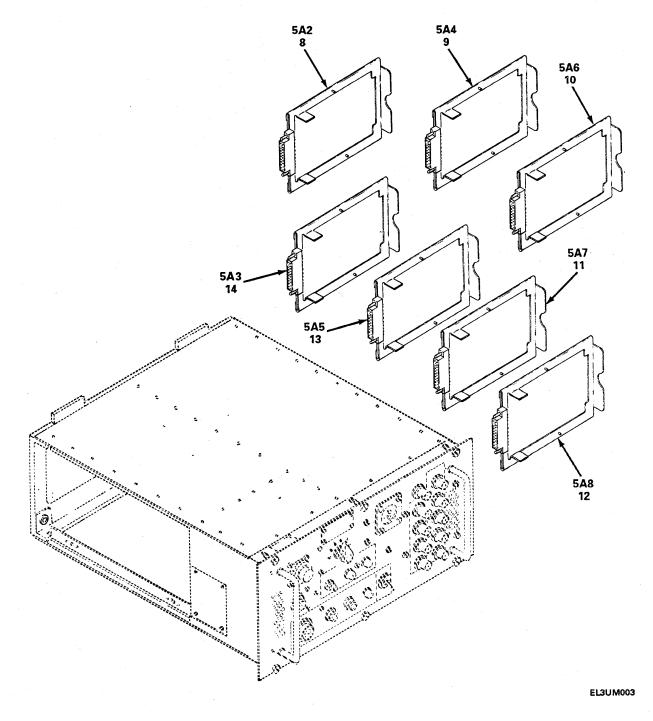
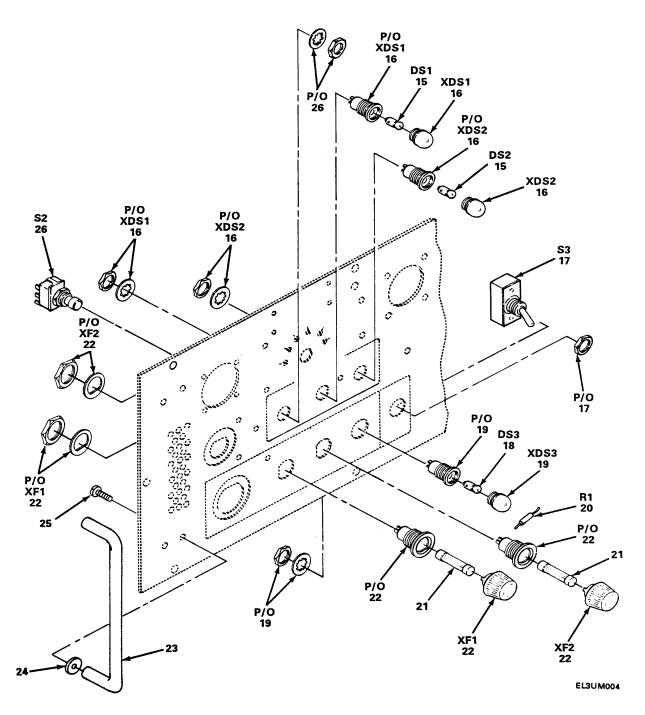


Figure 1 Multiplexer TD-202/U (Sheet 3 of 10)

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Eleuro 1 Multiplayer TD 202/11/Choot 4 of 10)

Figure 1. Multiplexer TD-202/U (Sheet 4 of 10).

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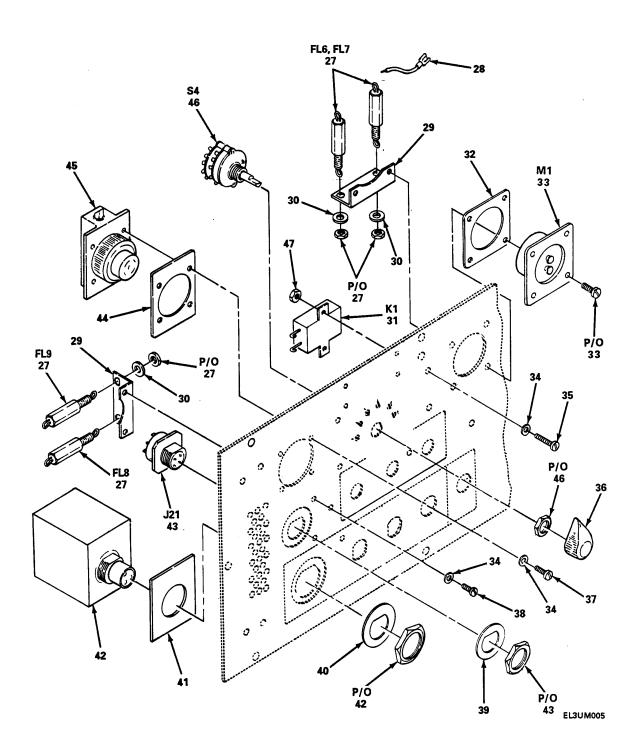


Figure 1 Multiplexer I TD-202/U (Sheet 5 Of 10)

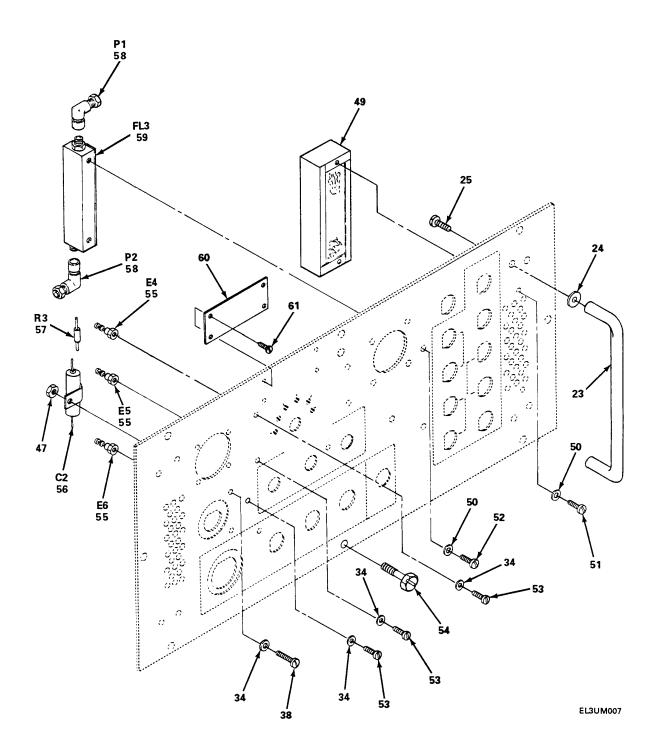
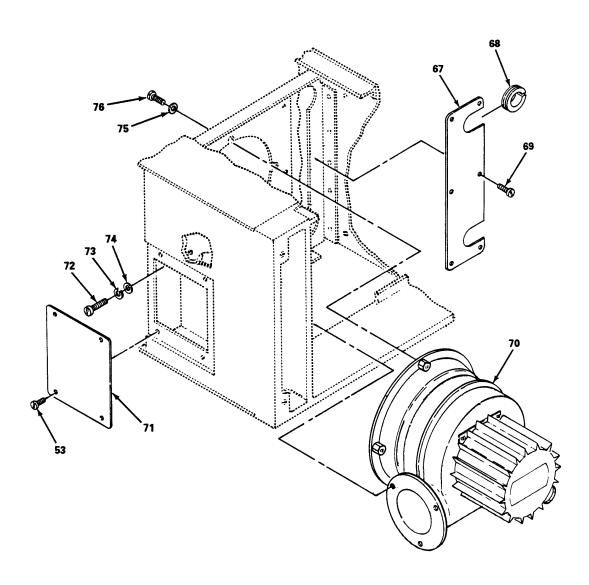


Figure 1. Multiplexer TD-202/U (Sheet 6 of 10).

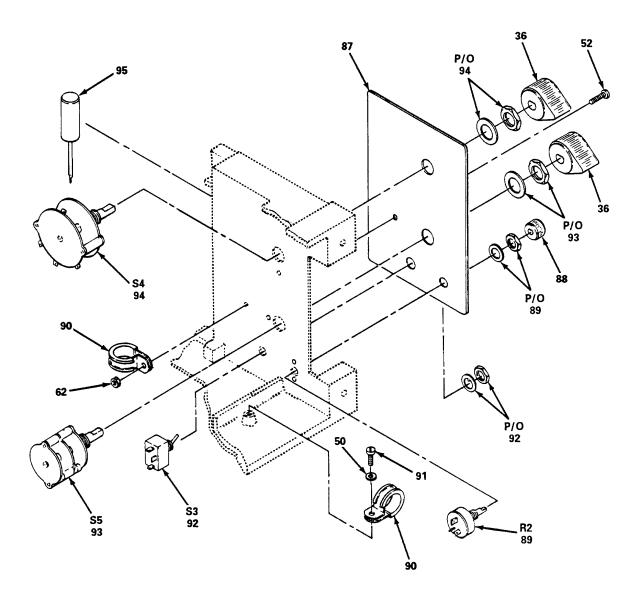
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EL3UM009

Figure 1. Multiplexer TD-202/U (Sheet 7 of 10).

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EL3UM011

Figure 1. Multiplexer TD-202/U (Sheet 8 of 10).

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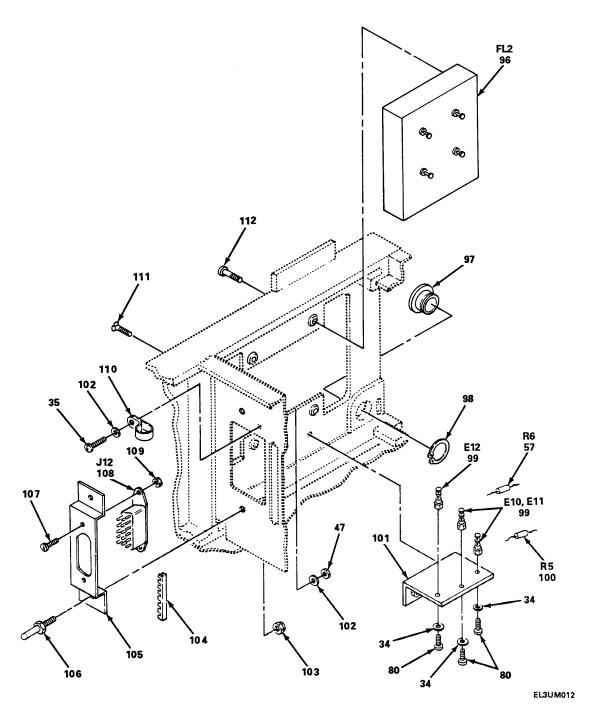
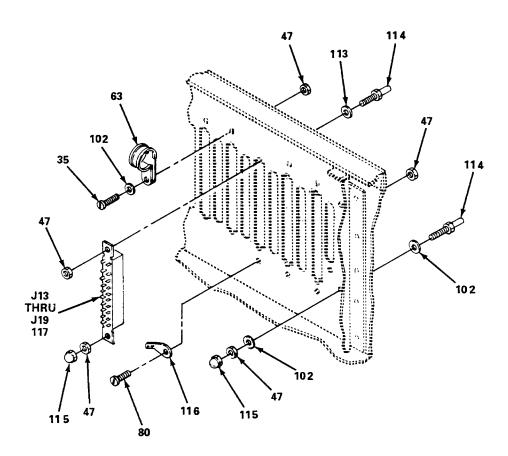


Figure 1. Multiplexer TD-202/U (Sheet 9 of 10).

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EL3UM013

Figure 1. Multiplexer TD-202/U (Sheet 10 of 10).

(1) (2) (4) (5) (6) ITEM SMR PART NO CODE CAGEC **NUMBER** DESCRIPTION AND USABLE ON CODES(UOC) QTY GROUP 01 POWER SUPPLY (A1) FIGURE 2 FUSE, CARTRIDGE.....2 1 PAOZZ 81349 F02A250V1/4A FUSE, CARTRIDGE......3 2 PAOZZ 81349 F02A250V3/4A 3 PAOZZ 81349 F02A250V2A FUSE, CARTRIDGE.....2 POWER SUPPLY SUBASS1 11 PAOLL 80063 SM-D-527007

TM 11-5805-367-20P-1-1

END OF FIGURE

SECTION II

TM 11-5805-367-20P-1-1

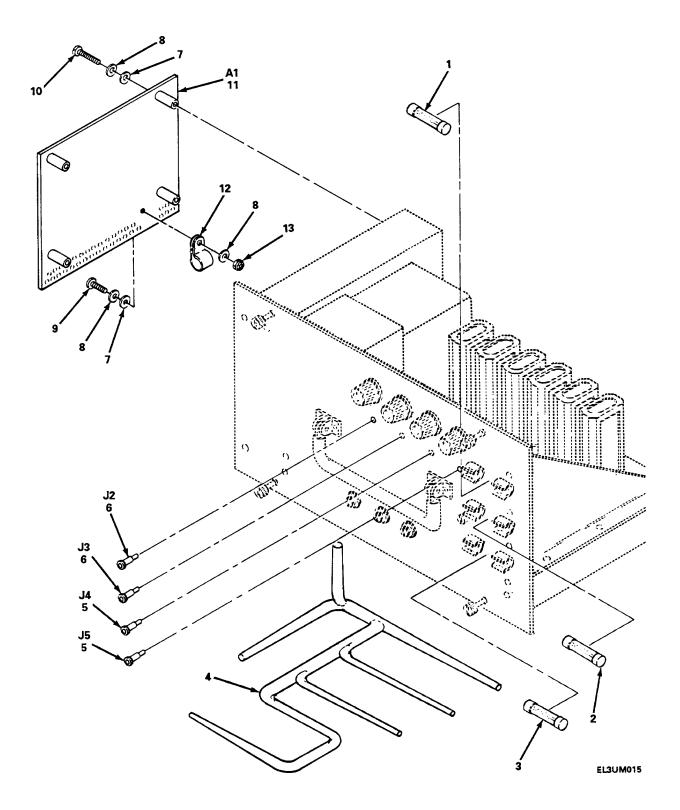


Figure 2. Power Supply (A 1) (Sheet 1 of 2).

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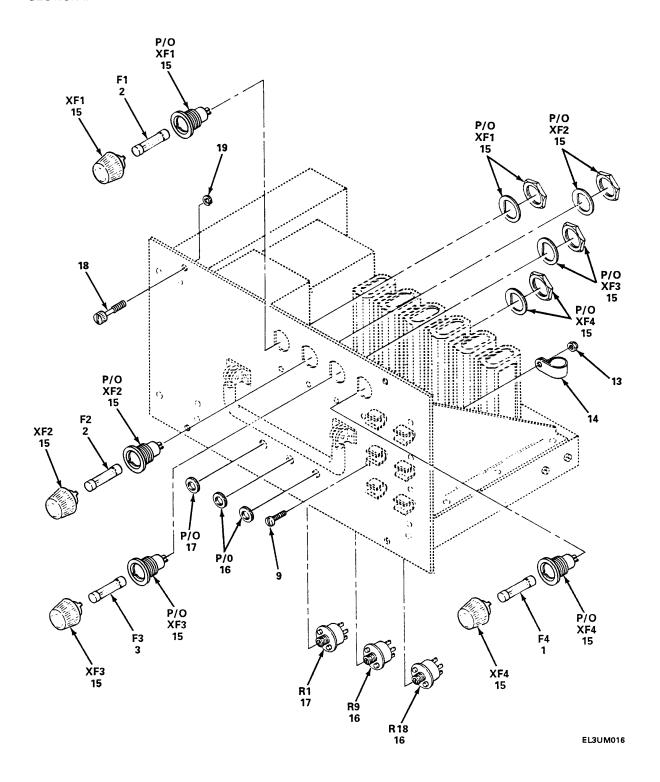


Figure 2. Power Supply (A 1) (Sheet 2 of 2).

SECTION IV

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CROSS-REFERENCE INDEXES

	NATIONAL STOCK NUMBER INDEX						
STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM.		
5920-00-043-2641	2	1					
6240-00-155-7836	1	15					
5310-00-208-9255	1	103					
5920-00-280-4960	2	3					
5920-00-296-0446	1	21					
	2	2					
6240-00-892-4420	1	18					
6130-00-930-6030	2	11					
5805-00-944-104	1	16					
5805-00-945-102	1	18					
6210-00-969-0092	1	19					

SECTION IV

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CROSS-REFERENCE INDEXES

		PART NUMBER INDEX		
CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
80063	A3010803		1	11
80204	C7A	6240-00-892-4420	1	18
81349	F02A250V1/4A	5920-00-043-2641	2	1
81349	F02A250V2A	5920-00-280-4960	2	3
81349	F02A25OV3/4A	5920-00-296-0446	1	21
			2	2
96906	MS21044C3	5310-00-208-9255	1	103
96906	MS25237-327	6240-00-155-7836	1	15
80063	SM-B-526677		1	16
80063	SM-B-527613		1	106
80063	SM-D-527007	6130-00-930-6030	2	11
80063	SM-D-527010	5805-00-945-1021	1	8
80063	SM-D-527022		1	10
80063	SM-D-529510		1	12
80063	SM-D-529513		1	14
80063	SM-D-529516		1	9
80063	SM-D-529519		1	13
80063	SM-E-527005	5805-00-944-1041	1	6
72619	137-7336-0933-20	6210-00-969-0092	1	19
	3			

SECTION IV

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CROSS REFERENCE INDEXES

		FIGURE AND ITEM NU	MBER INDEX	
FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
	_	7007 00 044 1041	000.60	G) (F) #25005
1	6	5805-00-944-1041	80063	SM-E-527005
1	8	5805-00-945-1021	80063	SM-D-527010
1	9		80063	SM-D-529516
1	10		80063	SM-D-527022
1	11		80063	A3010803
1	12		80063	SM-D-529510
1	13		8063	SM-D-529519
1	14		88063	SM-D-529513
1	15	6240-00-155-7836	96906	MS25237-327
1	16		80063	SM-B-526677
1	18	6240-00-892-4420	80204	C7A
1	19	6210-00-969-0092	72619	137-7336-0933-20
				3
1	21	5920-00-296-0446	81349	F02A250V3/4A
1	103	5310-00-208-9255	96906	MS21044C3
1	106		80 063	SM-B-527613
2	1	5920-00-043-2641	81349	F02A250Vl/4A
2	2	5920-00-296-0446	81349	F02A250V3/4A
2	3	5920-00-280-4960	81349	FO2A250V2A
2	11	6130-00-930-6030	80063	SM-D-527007

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THE METRIC SYSTEM AND EQUIVALENTS

'NEAR MEASURE

Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches

1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches

1 Kilometer = 1000 Meters = 0.621 Miles

YEIGHTS

Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces

1 Kilogram = 1000 Grams = 2.2 lb.

1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces

1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

SQUARE MEASURE

1 Sq. Centimeter = 100 Sq. Millimeters = 0.155 Sq. Inches

1 Sq. Meter = 10,000 Sq. Centimeters = 10.76 Sq. Feet

1 Sq. Kilometer = 1,000,000 Sq. Meters = 0.386 Sq. Miles

CUBIC MEASURE

1 Cu. Centimeter = 1000 Cu. Millimeters = 0.06 Cu. Inches 1 Cu. Meter = 1,000,000 Cu. Centimeters = 35.31 Cu. Feet

TEMPERATURE

 $5/9(^{\circ}F - 32) = ^{\circ}C$

212° Fahrenheit is evuivalent to 100° Celsius

90° Fahrenheit is equivalent to 32.2° Celsius

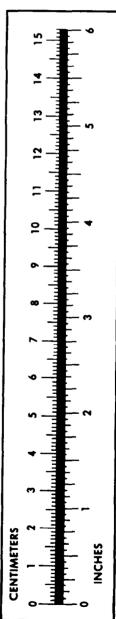
32° Fahrenheit is equivalent to 0° Celsius

 $9/5C^{\circ} + 32 = {\circ}F$

APPROXIMATE CONVERSION FACTORS

TO CHANGE	TO	MULTIPLY BY
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	
Miles	Kilometers	
Square Inches	Square Centimeters	
Square Feet	Square Meters	
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	
Cubic Feet	Cubic Meters	
Cubic Yards	Cubic Meters	
Fluid Ounces	Milliliters	
nts	Liters	
arts	Liters	
allons	Liters	
Ounces	Grams	
Pounds	Kilograms	
Short Tons	Metric Tons	
Pound-Feet	Newton-Meters	
Pounds per Square Inch	Kilopascals	
Miles per Gallon	Kilometers per Liter	
Miles per Hour	Kilometers per Hour	
•	•	

TO CHANGE	то	MULTIPLY BY
Centimeters	Inches	0.394
Meters	Feet	3.280
Meters	Yards	
Kilometers	Miles	
Square Centimeters	Square Inches	
Square Meters	Square Feet	
Square Meters	Square Yards	1 196
Square Kilometers	Square Miles	0.386
Square Hectometers	Acres	
Cubic Meters	Cubic Feet	
Cubic Meters	Cubic Yards	
Milliliters	Fluid Ounces	
Liters	Pints	
Liters	Quarts	
'ers	Gallons	
.ms	Ounces	
.ograms	Pounds	
Metric Tons.	Short Tons	
Newton-Meters	Pounds-Feet	
Kilopascals	Pounds per Square Inch .	
ometers per Liter	Miles per Square Inch .	9 254
meters per Hour	Miles per Gallon	
miecers per mour	Miles per Hour	U.OZI



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