

DIRECT SUPPORT AND GENERAL SUPPORT
MAINTENANCE REPAIR PARTS AND
SPECIAL TOOLS LISTS
(INCLUDING DEPOT MAINTENANCE REPAIR
PARTS AND SPECIAL TOOLS)
FOR

MULTIPLEXER, DIGITAL
TD-1337(V)1/G
(NSN 7025-01-112-6311)

MULTIPLEXER, DIGITAL
TD-1337(V)2/G
(NSN 7025-01-112-6310)

MULTIPLEXER, DIGITAL
TD-1337(V)3/G
(NSN 7025-01-112-6312)

MULTIPLEXER, DIGITAL
TD-1337(V)4/G
(NSN 7025-01-127-7020)

This copy is a reprint which includes current
pages from Change 1.

TECHNICAL MANUAL
NO. 11-7025-221-34P
TECHNICAL ORDER
No. TO 31S5-2G-254
TECHNICAL MANUAL
TM-08467A-34/5

DEPARTMENTS OF THE ARMY,
THE AIR FORCE, AND THE MARINE CORPS

WASHINGTON, DC, 17 December 1982

**DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND
SPECIAL TOOLS)**

FOR

MULTIPLEXER, DIGITAL TD-1337(V)1/G

(NSN 7025-01-112-6311)

MULTIPLEXER, DIGITAL TD-1337(V)2/G

(NSN 7025-01-112-6310)

MULTIPLEXER, DIGITAL TD-1337(V)3/G

(NSN 7025-01-112-6312)

MULTIPLEXER, DIGITAL TD-1337(V)4/G

(NSN 7025-01-127-7020)

Basic manual current as of 17 December 1982
Change 1 current as of 11 July 1983

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. 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 manual direct to Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: DR-SEL-ME-MP, Fort Monmouth, NJ 07703.

For Air Force, submit AFTO Form 22 (Technical Order System Publication Improvement Report and Reply) in accordance with paragraph 6-5, Section VI, T.O. 00-5-1. Forward direct to prime ALC/MST.

Marine Corps Units should submit NAVMC10772.

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

			Page
S E C T I O N	I.	Introduction	1
	II.	Repair Parts List	5
G R O U P	0 0	Multiplexer, Digital TD-1337(V)G	5
	01	Power Supply	17
		0101 Circuit Card Assembly, Timing and Control	23
		0102 Circuit Card Assembly, Regulator	27
		0103 Circuit Card Assembly, Chopper	31
		0104 Circuit Card Assembly, Interconnection Board	33
	02	Panel Assembly, Multiplexer, Control	39
		0201 Circuit Card Assembly, Display	43
		0202 Keyboard Assembly	47
	03	Circuit Card Assembly, Microprocessor (A)	51
	04	Circuit Card Assembly, Non-Volatile Memory	55
	05	Circuit Card Assembly, Synchronizer and Synthesizer	59
	06	Circuit Card Assembly, Demux	65
	07	Circuit Card Assembly, Mux	69
	08	Circuit Card Assembly, Phase Locked Loop	73
	09	Circuit Card Assembly, 16 DVOW	77
	10	Circuit Card Assembly, Loop Modem/Rate Measurement	83
	11	Circuit Card Assembly, Mux Input Buffer	87
	12	Circuit Card Assembly, Output Buffer	91
	13	Circuit Card Assembly, Group Modem	95
	14	Circuit Card Assembly, TD-660 I/O	101
	15	Case Assembly, Card File	105
		1501 Backplane Assembly, Wired	107
	16	Case Assembly	109
	17	Cable Assembly, W1	111
	18	Cable Assembly, W4	113
	19	Cable Assembly, W5	115
	20	Cable Assembly, W6	117
	21	Cable Assembly, W7	119
	22	Cable Assembly, W8	121
	23	Cable Assembly, W9	123
	24	Cable Assembly, W10	125
	25	Cable Assembly, W11	127
	26	Red CESE Assembly	129
		2601 Circuit Card Assembly, Red CESE	131
	27	Circuit Card Assembly, 2.4 DVOW	135
	28	Circuit Card Assembly, CESE Status Collector	139
	29	Circuit Card Assembly, Microprocessor (B)	143
	30	Cable Assembly, W2	147
	31	Cable Assembly, W3	149
S E C T I O N	III.	Special Tools List	150.1
G R O U P	40	Special Tools	150.1
		4001 Test Box, Power Supply	150.5
		4002 Test Box, Analog Card	150.9
S E C T I O N	I V .	National Stock Number and Part Number Index	150.11

SECTION I

INTRODUCTION

1. Scope

This manual lists spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE), and other special support equipment required for performance of direct support and general support maintenance of the TD-1337V/G. It authorizes the requisitioning and issue of spares and repair parts as indicated by the source and maintenance 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 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 numeric sequence, with the parts in each group listed in figure and item number sequence.

b. Section III. Special Tools List. A list of special tools, special TMDE, and other special support equipment authorized for the performance of maintenance.

c. Section IV. National Stock Number and Part Number Index. A list, in National item identification number (N I IN) sequence, of all National stock numbers (NSN) appearing in the listings, 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.

3. Explanation of Columns

a. Illustration. This column is divided as follows:

(1) *Figure number.* Indicates the figure number of the illustration on which the item is shown.

(2) *Item number.* The number used to identify item called out in the illustration.

b. Source, Maintenance, and Recoverability (SMR) Codes.

(1) *Source code.* Source codes indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code format as follows:

Code

Definition

PA— Item procured and stocked for anticipated or known usage.

PE— Support equipment procured and stocked for initial issue or outfitting to specified maintenance repair activities.

XA— Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.

XB— Item is not procured or stocked. If not available through salvage, requisition.

NOTE

Cannibalization or salvage maybe used as a source of supply for any items source coded above except those coded XA and aircraft support item as restricted by AR 750-1.

(2) *Maintenance code.* Maintenance codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code format as follows:

(a) The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove, replace, and use the support item. The maintenance code entered in the third position will indicate one of the following levels of maintenance:

Code

Application/Explanation

O— Support item is removed, replaced, used at the organizational level.

F— Support item is removed, replaced, used at the direct support level.

H— Support item is removed, replaced, used at the general support level.

D— Support items that are removed, replaced, used at depot, mobile depot, specialized repair activity only.

(b) The maintenance code entered in the fourth positions indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions). This position will contain one of the following maintenance codes:

- | <i>Code</i> | <i>Application/Explanation</i> |
|-------------|---|
| F— | The lowest maintenance level capable of complete repair of the support item is the direct support level. |
| H— | The lowest maintenance level capable of complete repair of the support item is the general support level. |
| D— | The lowest maintenance level capable of complete repair of the support item is the depot level. |
| Z— | Nonreparable. No repair is authorized. |

(3) *Recoverability code*. Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the Uniform SMR Code format as follows:

- | <i>Recoverability codes</i> | <i>Definition</i> |
|-----------------------------|--|
| Z— | Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3. |
| F— | Reparable item. When uneconomically reparable, condemn and dispose at the general support level. |
| H— | Reparable item. When uneconomically reparable, condemn and dispose at the general support level. |
| D— | Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level. |
| L— | Reparable item. Repair, condemnation, and disposal not authorized below depot/specialized repair activity level. |
| A— | Item requires special handling or condemnation procedures because of specific reasons (i.e., precious metal content, high dollar value, critical material or hazardous material). Refer to appropriate manuals/directives for specific instructions. |

c. National Stock Number. Indicates the National stock number assigned to the item and will be used for requisitioning purposes.

d. Federal Supply Code for Manufacturer (FSCM). The FSCM is a 5-digit numeric code listed in SB 708-41/42 which is used to identify the manufacturer, distributor, or Government agency, etc.

e. Part Number. 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 a stock numbered item is requisitioned, the repair part received may have a different part number than the part being replaced.

f. Description. Indicates the Federal item name and, if required, a minimum description to identify the item. In the Special Tools List, the initial basis of issue (BOI) appears as the last line in the entry for each special tool, special TMDE, and other special support equipment. When density of equipments supported exceeds density spread indicated in the basis of issue, the total authorization is increased accordingly.

g. Unit of Measure (U/M). Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr, etc). When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.

h. Quantity Incorporated in Unit. 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 no specific quantity is applicable, (e.g., shims, spacers, etc).

4. Special Information

a. Usable on codes are shown in the description column. Uncoded items are applicable to all models. Identification of the usable on codes used in this publication are:

<i>Code</i>	<i>Used on</i>
ELC	TD-1337(V)1/G
ELD	TD-1337(V)2/G
ELE	TD-1337(V)3/G
ELF	TD-1337(V)4/G

b. The following publications pertain to the TD-1337(V)/G and their components:

- TM 11-7025-221-10, Multiplexer, Digital TD-1337(V)/G
- TM 11-7025-221-20, Multiplexer, Digital TD-1337(V)/G
- TM 11-7025-221-20P Multiplexer, Digital TD-1337(V)/G
- TM 11-7025-221-34, Multiplexer, Digital TD-1337(V)/G

c. 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: DR-SEL-MM, Fort Monmouth, New Jersey 07703 for the part required to support your equipment.

d. Action change codes indicated in the left-hand margin of the listing page denote the following.

N—Indicates an added item.

C—Indicates a change in data.

R—Indicates a change in NSN only.

5. How to Locate Repair Parts

a. When National stock number or part number is unknown.

(1) *First*. Using the table of contents, determine the functional group within which the item belongs. This is necessary since illustrations are prepared for functional groups and listings are divided into the same groups.

(2) *Second*. Find the illustration covering the functional group to which the item belongs.

(3) *Third*. Identify the item on the illustration and note the illustration figure and item number of the item.

(4) *Fourth*. Using the Repair Parts Listing, find the figure and item number noted on the illustration.

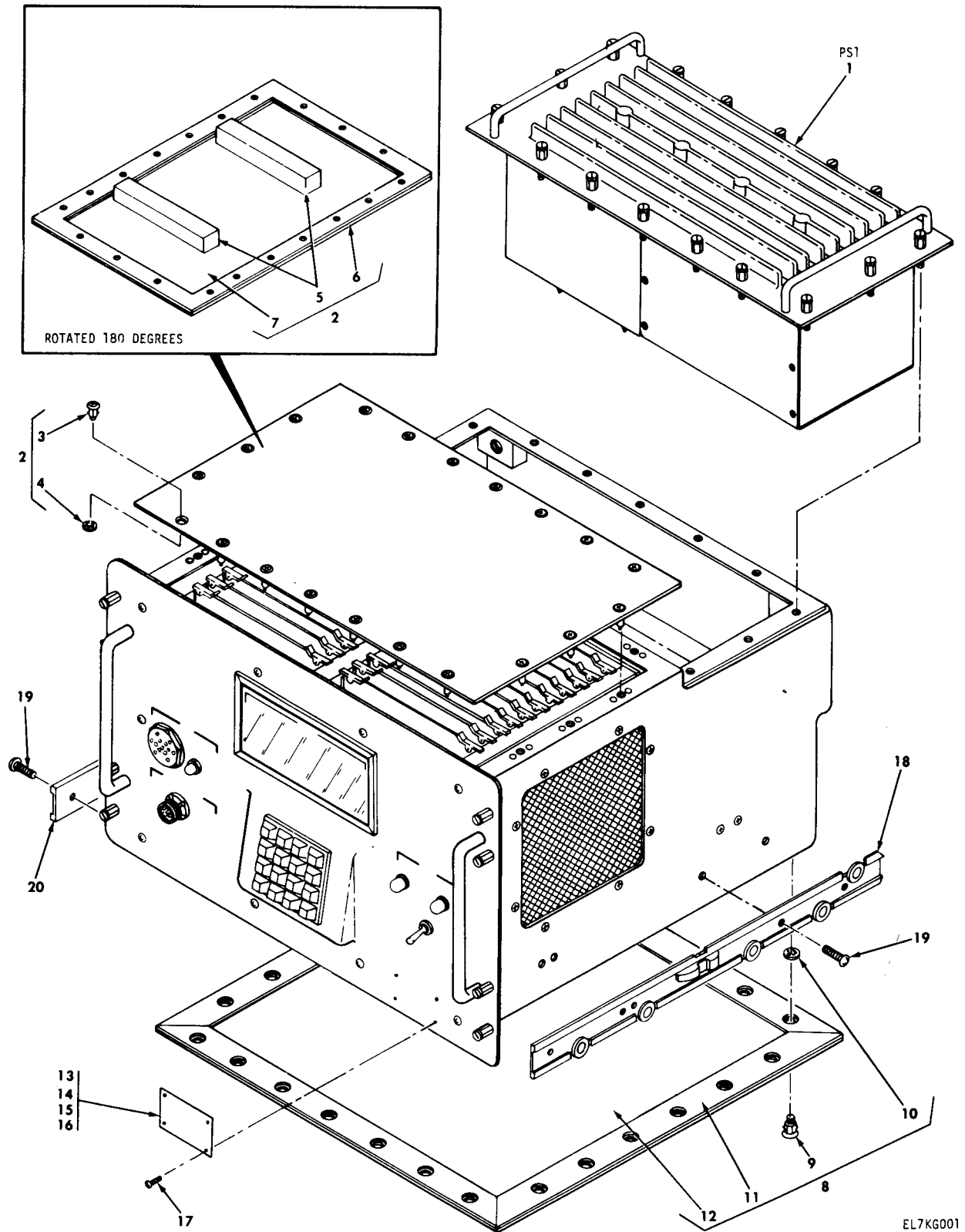
b. When National stock number or part number is known.

(1) *First*. Using the index of National Stock Numbers and Part Numbers, find the pertinent National stock number or part number. This index is in NII N sequence followed by a list of part numbers in alphameric sequence, cross-referenced to the illustration figure number and item number.

(2) *Second*. After finding the figure and item number, locate the figure and item number in the repair parts list.

6. Abbreviations

Not applicable.



EL7KG001

Figure 1. Multiplexer, Digital TD-1337(V)/G (sheet 1 of 8).

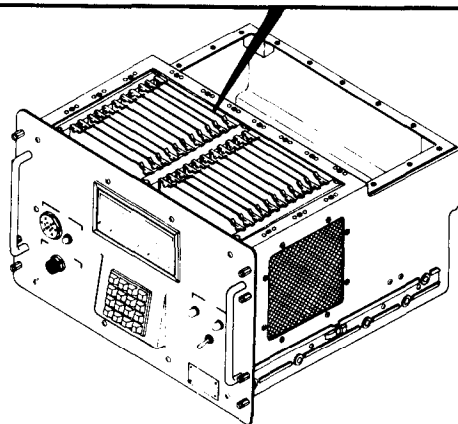
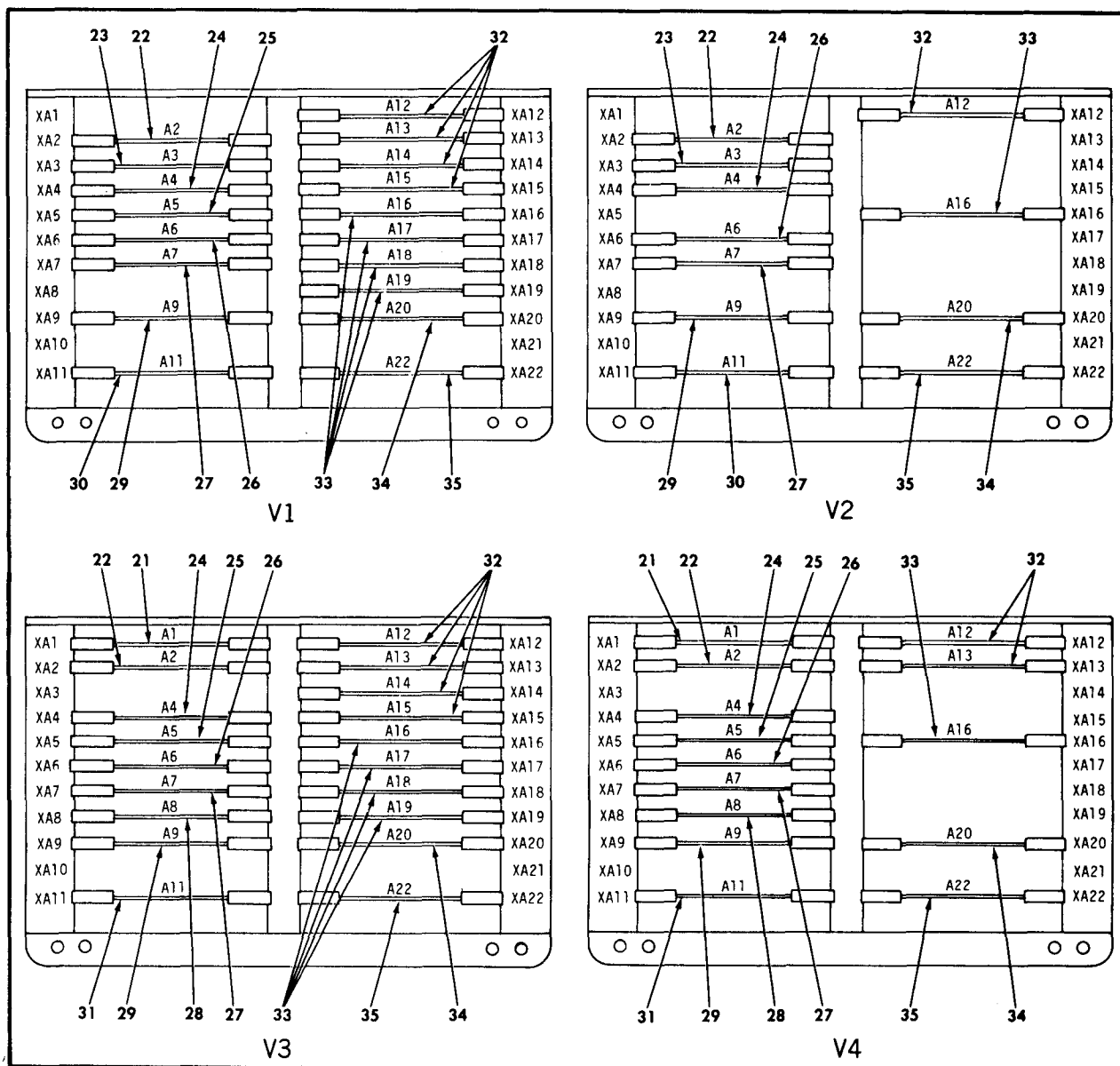


Figure 1. Multiplexer, Digital TD-1337(V)/G (sheet 2 of 8).

EL7KG082