

TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE AND REPAIR PARTS AND SPECIAL TOOLS LISTS

FOR

**TEST HARNESS, RADIO SET
AN/URM-157 (NSN 6625-00-766-4685)**

AND

AN/URM-157A (NSN 6625-00-236-1557)

TECHNICAL MANUAL }
No. 11-6625-622-20P }

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, 23 November 1976

ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS

FOR

**TEST HARNESS, RADIO SET
AN/URM-157 (NSN 6625-00-766-4685)**

AND

AN/URM-157A (NSNS 6625-00-236-1557)

Current as of 28 June 1976

REPORTING OF ERRORS

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12 Cable Assembly, Special Purpose, Electrical CX-11046/URM-157 (No parts authorized)		
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14 Cable Assembly, Special Purpose, Electrical CX-11045/URM-157 (No parts authorized)		
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*This manual supersedes TM 11-6625-622-20P, 4 May 1971, and so much of TM 11-6625-622-12, 10 December 1964, including Change 1, 3 March 1966, as pertains to repair parts and special tools list.

SECTION I

INTRODUCTION

1. Scope

This manual lists repair parts and special tools required for performance of organizational/maintenance of the AN/URM-157 and AN/URM-157A.

2. General

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

a. Section II. Repair Parts List. A list of 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 ascending numerical sequence, with the parts in each group listed in figure and item number sequence.

b. Section III. Special Tools List. Not applicable.

c. Section IV. National Stock Number and Part Number Index. A list, in ascending National item identification number (NIIN, last 9 digits) sequence, of all National stock numbers appearing in the listings, followed by a list, in alphanumeric sequence, of all part numbers appearing in the listings. National stock number and part numbers are cross-referenced to each illustration figure and item number appearance.

3. Explanation of Columns

The following provides an explanation of columns found in the tabular listings:

a. Illustration. This column is divided as follows:

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

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

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

(1) *Source code.* Source codes are assigned to support items to 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.
XD	A support item that is not stocked. When required, item will be procured through normal supply channels.

NOTE

Cannibalization or salvage may be used as a source of supply for any items source coded above except those coded XA, XD, and aircraft support items as restricted by AR 700-42.

(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.

(b) The maintenance code entered in the fourth position 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:

Code	Application/Explanation
H	The lowest maintenance level capable of complete repair of the support item is the general support 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:

Recoverability codes	Definition
Z	Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.
H	Reparable item. When uneconomically reparable, condemn and dispose at the general support level.

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

d. 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.

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

f. Description. Indicates the Federal item name and, if required, a minimum description to identify the item.

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.

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:

Code
2AD
CYA

Used on
AN/URM-157
AN/URM-157A

b. The following publications pertain to the AN/URM-157 and AN/URM-157A and their components:
TM 11-5821-248-12, Radio Set AN/ARC-102
TM 11-5821-248-20P, Radio Set AN/ARC-102, FSN 5821-050-8255
TM 11-6625-622-12, Test Harness, Radio Set AN/URM-157 and ANP/URM-157A

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 repair part 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 repair part belongs.

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

(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.

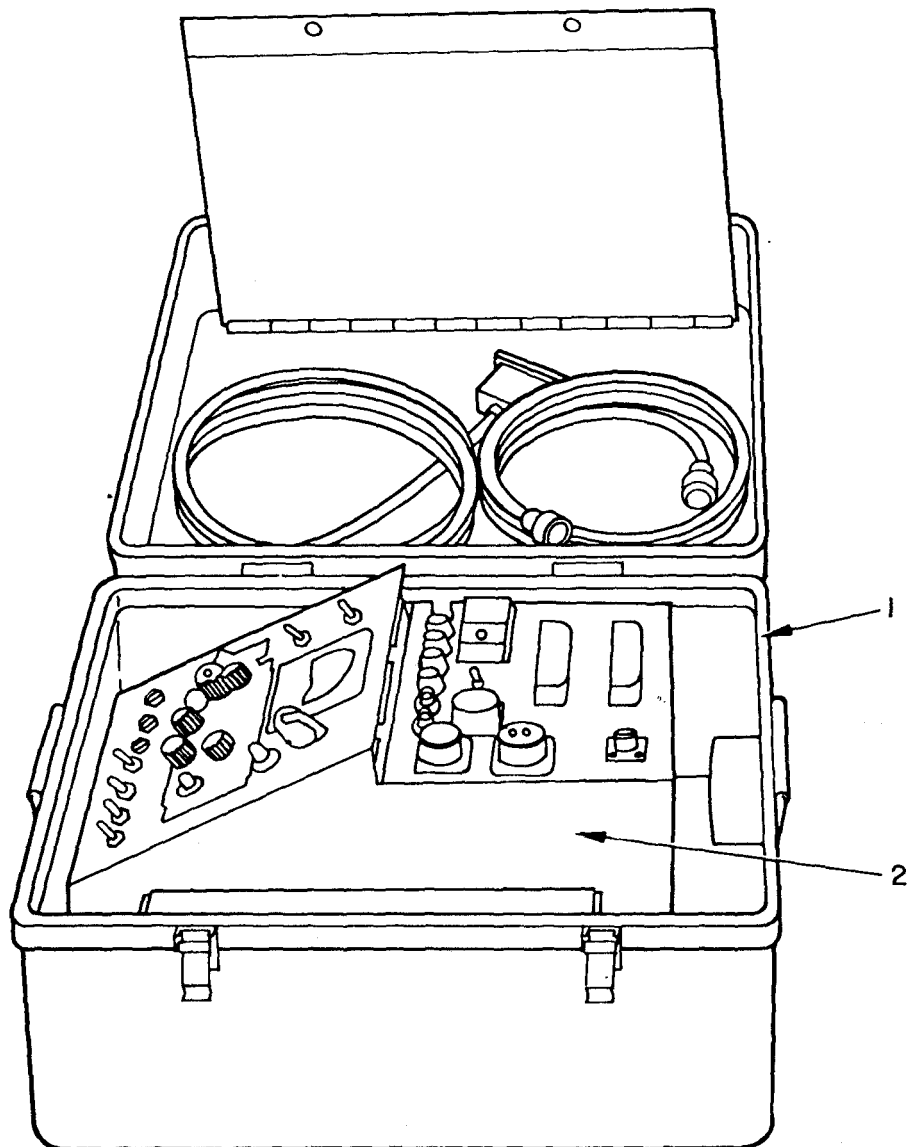
(1) *First.* Using the Index of National Stock Numbers and Part Numbers, find the pertinent National stock number or part number. This index is in ascending NIIN sequence followed by a list of part numbers in ascending alphanumeric sequence, cross-referenced to the illustration figure number and item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

(Next printed page is 4.1)



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Figure 1. Test Harness, Radio Set AN/URM-157 and AN/URM-157A
(Sheet 1 of 2).

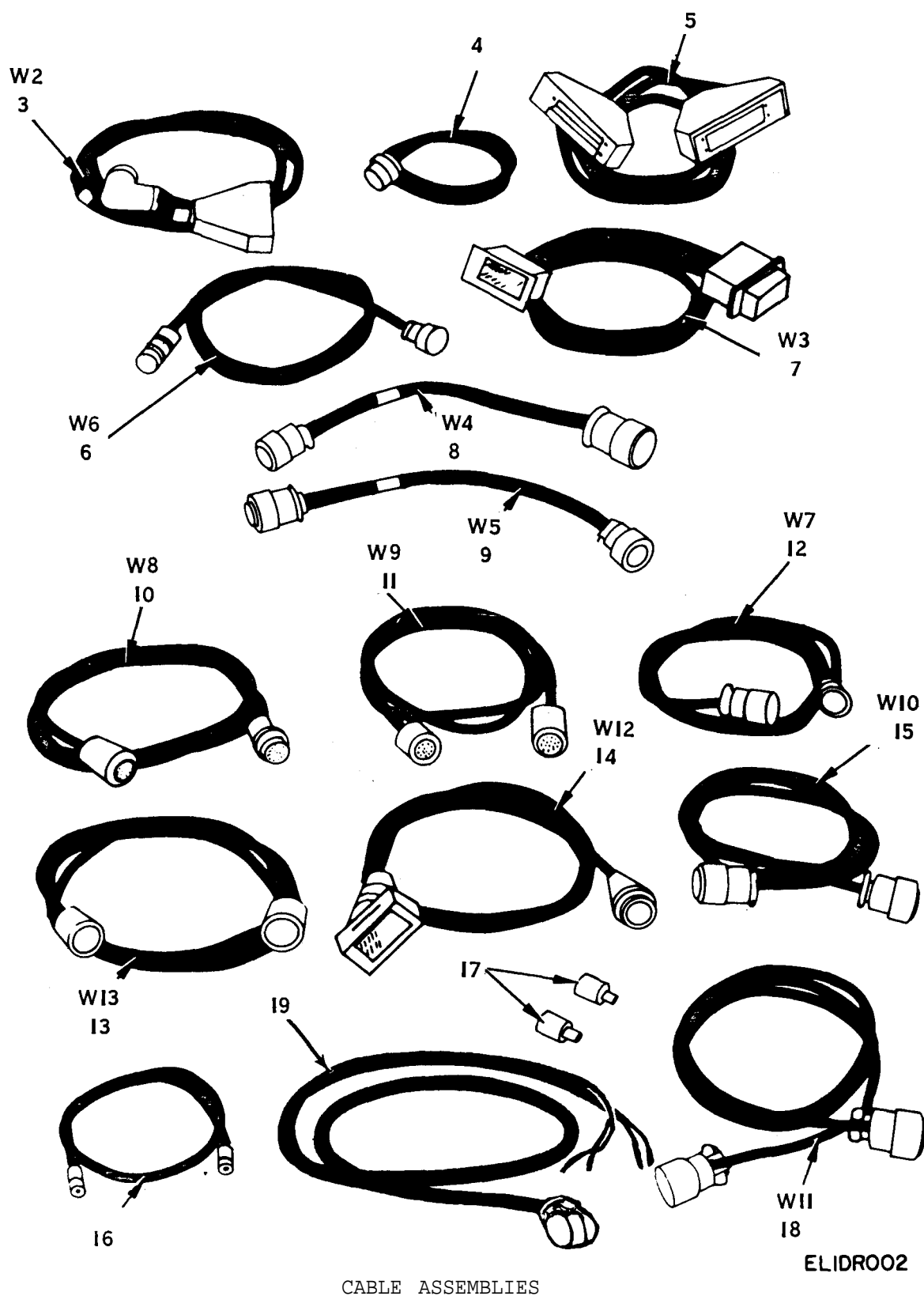


Figure 1. Test Harness, Radio Set AN/URM-157 and AN/URM-157A
(Sheet 2 of 2).

SECTION II (1) ILLUSTRATION (A) (B) FIG ITEM NO NO		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	TM11-6625-622-20P (6) DESCRIPTION	USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
GROUP 00 TEST HARNESS, RADIO SET AN/URM-157 AND AN/URM-157A									
1	1	XDOHH		CY4064URM157	80058	CASE, TEST HARNESS		EA	1
1	2	PAOHH	6625-00-766-3847	TS1949URM157	80058	TEST HARNESS SUBASSEMBLY	2AD	EA	1
1	2	PAOHH	6625-00-237-4389	TS1949AURM157	80058	TEST HARNESS SUBASSEMBLY	CYA	EA	
1	3	PAOHH	5995-00-797-7299	CX8998URM157	80058	CABLE ASSEMBLY, POWER, ELECTRICAL	2AD	EA	1
1	4	XDOHH	5995-00-985-8179	CX8999URM157	80058	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL		EA	1
1	5	XDOHH		CX8997URM157	80058	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL		EA	1
1	6	XDOHH	5995-00-985-8177	CX9003URM157	80058	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL		EA	1
1	7	XDOHH	5995-00-985-8180	CX9000URM157	80058	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL		EA	1
1	8	XDOHH	5995-00-985-8181	CX9001URM157	80058	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL		EA	1
1	9	XDOHH	5995-00-985-8178	CX9002URM157	80058	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL		EA	1
1	10	XDOHH	5995-00-985-8182	CX9005URM157	80058	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL		EA	1
1	11	XDOHH	5995-00-985-8183	CX9006URM157	80058	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL		EA	1
1	12	XDOHH	5995-00-985-8176	CX9004URM157	80058	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL		EA	1
1	13	XDOHH	5995-00-935-2527	CX10594URM157	80058	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL		EA	1
1	14	XDOHH	5995-00-985-8167	CX11046URM157	80058	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL	2AD	EA	1
1	15	XDOHH	5995-00-985-8174	CX11045URM157	80058	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL	2AD	EA	1
1	16	XDOHH		CG2727U	80058	CABLE ASSEMBLY, RADIO FREQUENCY		EA	1
1	17	PAOZZ	5935-00-259-0205	UG201AU	80058	ADAPTER, CONNECTOR		EA	2
1	18	XDOHH	5995-00-985-8168	CX11044URM157	80058	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL	2AD	EA	1
1	19	PAOHH	6625-00-471-0623	CX12612URM157A	80058	CABLE ASSEMBLY, POWER, DC	CYA	EA	1

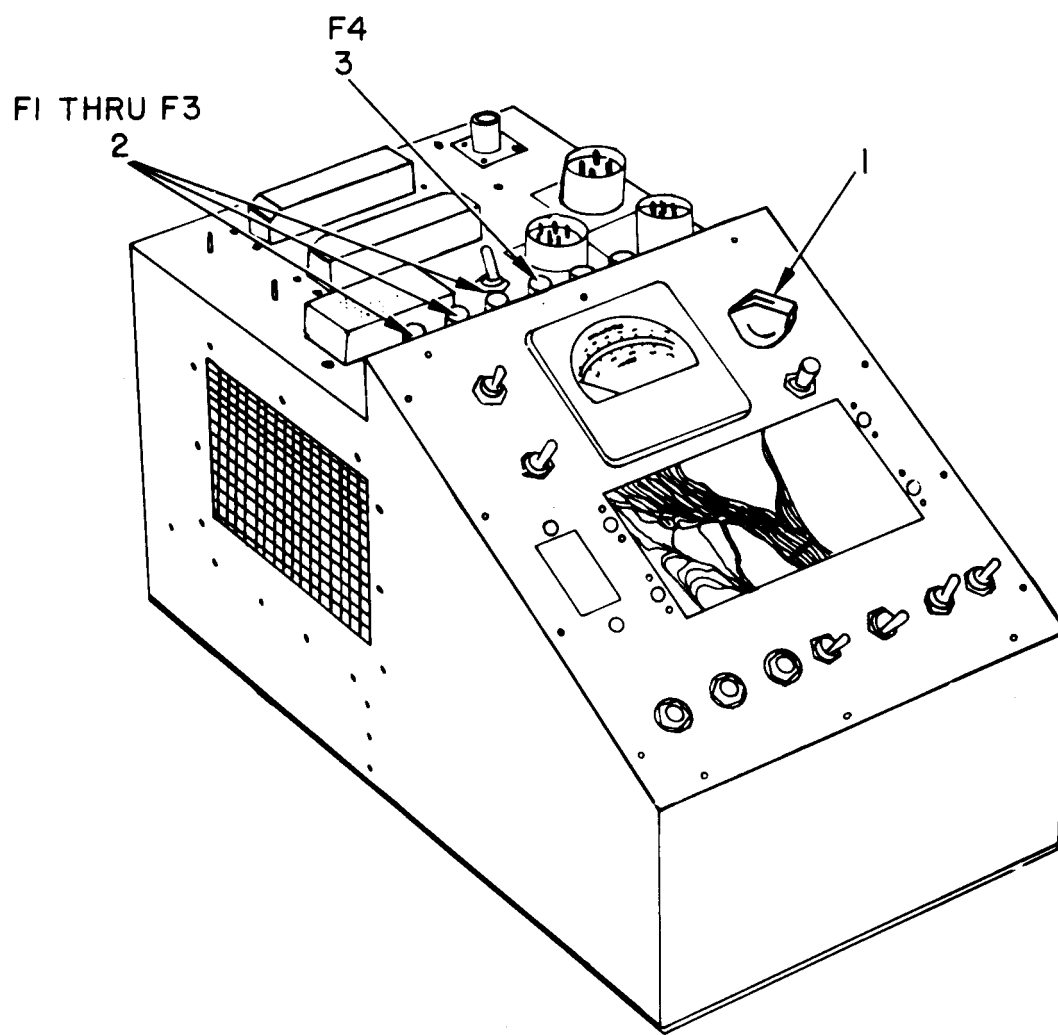


Figure 2. Test Harness Subassembly TS-1949/UHM-157.

SECTION II						TM11-6625-622-20P			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		
ILLUSTRATION							QTY		
(A)	(B)		NATIONAL		DESCRIPTION		INC		
FIG	ITEM	SMR	STOCK	PART			IN		
NO	NO	CODE	NUMBER	NUMBER	FSCM	USABLE ON CODE	U/M	UNIT	
GROUP 16 TEST HARNESS SUBASSEMBLY									
TS-1949/URM-157 OR TS-1949A/URM-157									
2	1	PAOZZ	5355-00-971-0588	543-8039-000	13499	KNOB ASSEMBLY	2AD	EA	1
2	2	PAOZZ	5920-00-296-0679	F03A250V5A	81439	FUSE,CARTRIDGE	2AD	EA	3
2	3	PAOZZ	5920-00-850-6092	F02B32V10AS	81349	FUSE,CARTRIDGE	2AD	EA	1

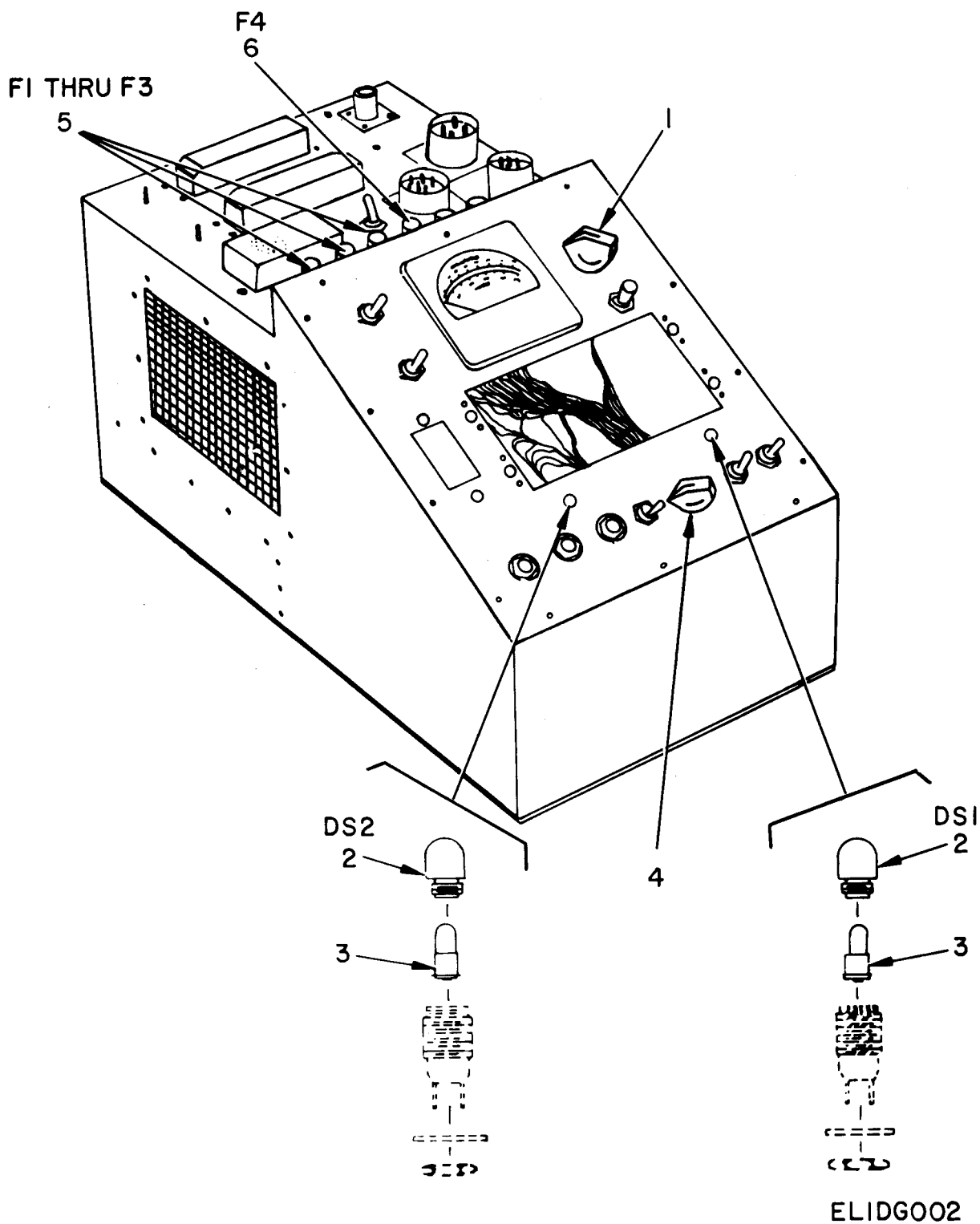


Figure 3. Test Harness Subassembly TS-1949A/URM-157.

SECTION II (1) ILLUSTRATION		(2)	(3)	(4)	(5)	TM11-6625-622-20P (6)	(7)		(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION	USABLE ON CODE	U/M	QTY INC IN UNIT
3	1	PAOZZ	5355-00-971-0588	543-8039-000	13499	KNOB ASSEMBLY	CYA	EA	1
3	2	PAOZZ	6210-00-813-6642	162-0975	72619	LENS, INDICATOR, LIGHT	CYA	EA	2
3	3	PAOZZ	6240-00-155-7836	MS25237-327	96906	LAMP, INCANDESCENT	CYA	EA	2
3	4	PAOZZ	5355-00-646-5571	2250	83330	KNOB-POINTER	CYA	EA	1
3	5	PAOZZ	5920-00-281-0225	F02A250V6AS	81349	FUSE, CARTRIDGE	CYA	EA	3
3	6	PAOZZ	5920-00-850-6092	F02B32V10AS	81349	FUSE, CARTRIDGE	CYA	EA	1

STOCK NUMBER	FIGURE NO.	ITEM NO.	
6240-00-155-7836	3	3	
6625-00-237-4389	1	2	
5935-00-259-0205	1	17	
5920-00-281-0225	3	5	
5920-00-296-0679	2	2	
6625-00-471-0623	1	19	
5355-00-646-5571	3	4	
6625-00-766-3847	1	2	
5995-00-797-7299	1	3	
6210-00-813-6642	3	2	
5920-00-850-6092	2	3	
5920-00-850-6092	3	6	
5995-00-935-2527	1	13	
5355-00-971-0588	2	1	
5355-00-971-0588	3	1	
5995-00-985-8167	1	14	
5995-00-985-8168	1	18	
5995-00-985-8174	1	15	
5995-00-985-8176	1	12	
5995-00-985-8177	1	6	
5995-00-985-8178	1	9	
5995-00-985-8179	1	4	
5995-00-985-8180	1	7	
5995-00-985-8181	1	8	
5995-00-985-8182	1	10	
5995-00-985-8183	1	11	
PART NUMBER	FSCM	FIGURE NO.	ITEM NO.
CG2727U	80058	1	16
CX10594URM157	80058	1	13
CX11044URM157	80058	1	18
CX11045URM157	80058	1	15
CX11046URM157	80058	1	14
CX12612URM157A	80058	1	19
CX8997URM157	80058	1	5
CX8998URM157	80058	1	3
CX8999URM157	80058	1	4
CX9000URM157	80058	1	7
CX9001URM157	80058	1	8
CX9002URM157	80058	1	9
CX9003URM157	80058	1	6
CX9004URM157	80058	1	12
CX9005URM157	80058	1	10
CX9006URM157	80058	1	11
CY4064URM157	80058	1	1
F02A250V6AS	81349	3	5
F02B32V10AS	81349	2	3
F02B32V10AS	81349	3	6
F03A250V5A	81349	2	2
MS25237-327	96906	3	3
TS1949URM157	80058	1	2
TS1949AURM157	80058	1	2
UG201AU	80058	1	17
162-0975	72619	3	2
2250	83330	3	4
543-8039-000	13499	2	1
543-8039-000	13499	3	1

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Radar Set AN/PSC-76

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

PAGE NO.	PARA-GRAPH	FIGURE NO.	TABLE NO.	
2-25	2-28			<p>Recommend that the installation antenna alignment procedure be changed throughout to specify a 2° IFF antenna lag rather than 1°.</p> <p>REASON: Experience has shown that with only a 1° lag, the antenna servo system is too sensitive to wind gusting in excess of 25 knots, and has a tendency to rapidly accelerate and decelerate as it hunts, causing strain to the drive train. Hunting is minimized by adjusting the lag to 2° without degradation of operation.</p>
3-10	3-3		3-1	<p>Item 5, Function column. Change "2 db" to "3db."</p> <p>REASON: The adjustment procedure for the TRANS POWER FAULT indicator calls for a 3 db (500 watts) adjustment to light the TRANS POWER FAULT indicator.</p>
5-6	5-8			<p>Add new step f.1 to read, "Replace cover plate removed in step e.1, above."</p> <p>REASON: To replace the cover plate.</p>
		FO3		<p>Zone C 3. On J1-2, change "+24 VDC to "+5 VDC."</p> <p>REASON: This is the output line of the 5 VDC power supply. + 24 VDC is the input voltage.</p>

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TABLE
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