

**TM 11-6110-201-12P**

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**TECHNICAL MANUAL**

**OPERATOR'S AND ORGANIZATIONAL MAINTENANCE REPAIR PARTS  
AND SPECIAL TOOLS LISTS**

**FOR**

**DISTRIBUTION BOXES J-1077/U**

**AND J-1077A/U**

**(NSN 6110-00-985-7574)**

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**HEADQUARTERS, DEPARTMENT OF THE ARMY**

**JULY 1977**



TECHNICAL MANUAL }  
 No. 11-6110-201-12P }

HEADQUARTERS  
 DEPARTMENT OF THE ARMY  
 Washington, DC, 22 July 1977

**OPERATOR'S AND ORGANIZATIONAL MAINTENANCE  
 REPAIR PARTS AND SPECIAL TOOLS LISTS  
 FOR  
 DISTRIBUTION BOXES J-1077/U AND J-1077A/U  
 (NSN 6110-00-985-7574)**

*Current as of 18 May 1977*

**REPORTING OF ERRORS**

**You can improve this manual by recommending improvements using DA Form 2028-2 (Test) located in back of the manual. Simply tear out the self-addressed form, fill it out as shown on the sample, fold it where shown, and drop it in the mail.**

**If there are no blank DA Form 2028-2 (Test) in the back of your manual, use the standard DA Form 2028 (Recommended Changes to Publications and Blank Forms) and forward to the Commander, US Army Electronics Command, ATTN: DRSEL-MA-Q, Fort Monmouth, NJ 07703**

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

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•The manual, together with TM 11-6110-201-34P, 18 July 1977, supersedes TM 11-6110-201-15P, 30 April 1969.



## 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 organizational maintenance of the J-1077/U and J-1077A/U. 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.* Not applicable.

*c. Section IV. National Stock Number and Part Number Index.* A list, in National item identification number (NIIN) sequence, of all National stock numbers (NSN) appearing in the listings, followed by a list, in alphabetic 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.

#### NOTE

Cannibalization or salvage may be used as a source of supply for any items source coded above except those coded XA 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
0	Support item is removed, replaced, used at the organisational 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
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 code	Definition
Z	Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.

*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:

<i>Code</i>	<i>Used on</i>
2T5	J-1077A/U
5HR	J-1077/U

*b.* The following publications pertain to the J-1077/U and J-1077A/U and their components:

TM 11-5935-203-15P, Connectors, Receptacle, Electrical U-186A/G and U-186B/G

TM 11-5935-205-14P, Connectors, Receptacle, Electrical U-187/G and U-187A/G

*c.* The illustrations in this manual are identical to those published in TM 11-6110-201-34P. Only those parts assigned the third position SMR maintenance code “ C” or “ O” are listed in the tabular listing; therefore, there may be a break in the item number sequence. Only illustrations containing organizational

authorized items appear in this manual,

**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 NIIN 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.

**(Next printed page is 4.)**



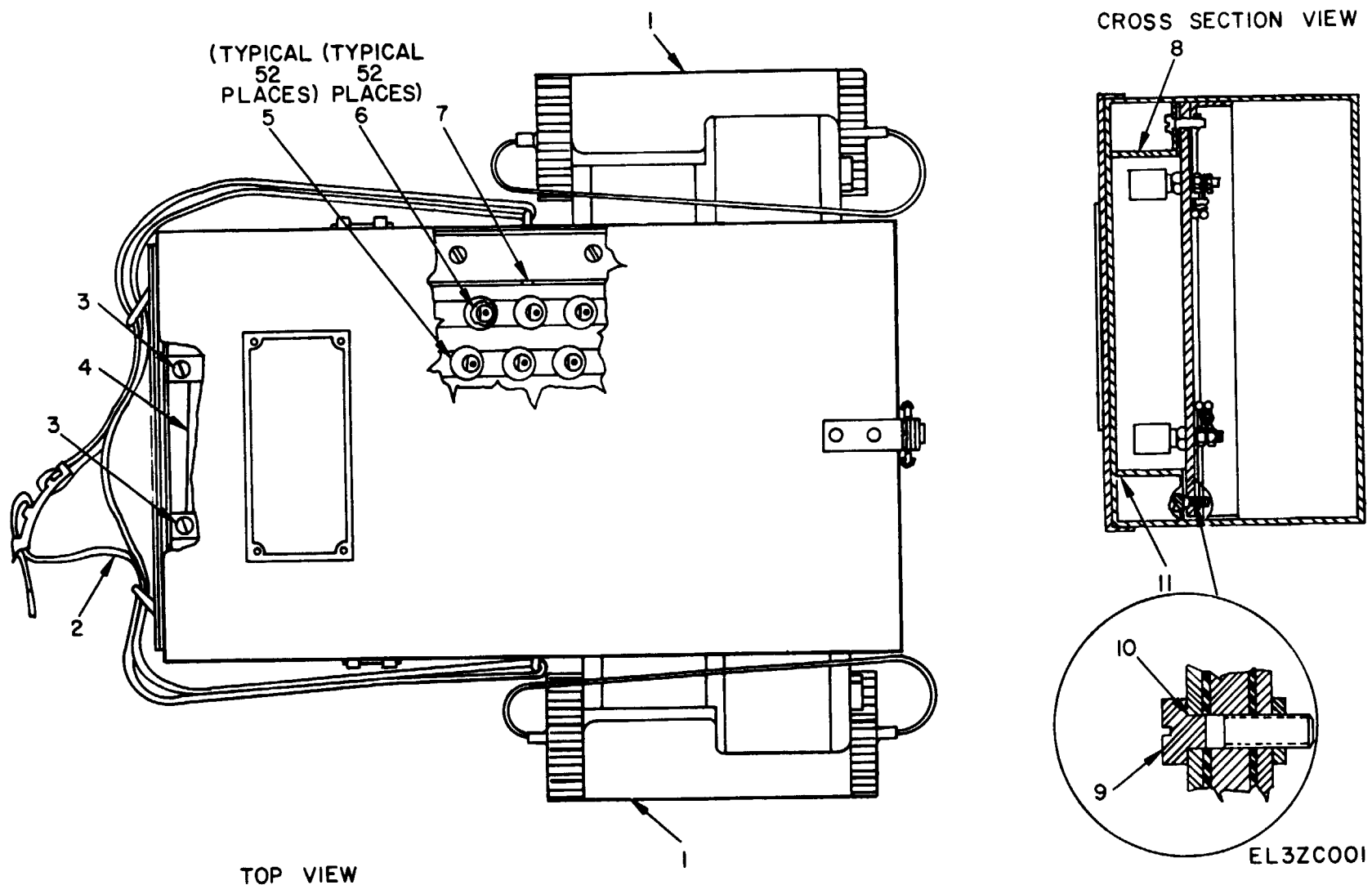


Figure 1. Distribution Boxes J-1077/U and J-1077A/U.



SECTION II			REPAIR PARTS LIST			TM11-6110-201-12P			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		
ILLUSTRATION					DESCRIPTION		QTY		
(a)	(b)	NATIONAL	PART				INC		
FIG	ITEM	STOCK	NUMBER	FSCM		USABLE ON CODE	U/M	IN	
NO	NO	CODE	NUMBER					UNIT	
GROUP 00 DISTRIBUTION BOXES J-1077/U AND J-1077A/U									
1	2	PAOZZ	5340-00-953-9018	SMC288056	80063	STRAP,WEBBING		EA	1
1	3	PAOZZ	5305-00-682-5636	SMB288046-2	80063	SCREW, MACHINE	2T5	EA	4
1	4	PAOZZ	6110-00-710-4344	F18111	96344	DESIGNATION STRIP	5HR	EA	4
1	4	PAOZZ	6110-00-711-0377	1464-242	99872	DESIGNATION STRIP	2T5	EA	1
1	5	PAOZZ	5999-00-283-5393	315K433	01537	CAP,ELECTRICAL	5HR	EA	52
1	6	PAOZZ	5940-00-283-5386	U106U	80058	POST,BINDING	5HR	EA	52
1	6	PAOZZ	5940-00-823-1804	SCC136011GP3	80063	POST,BINDING	2T5	EA	52
1	7	PAOZZ	5940-00-729-3016	1464-211	31550	TERMINAL BOARD	2T5	EA	1
1	8	PAOZZ	5975-00-886-8155	SMC288943-2	80063	FANNING STRIP	2T5	EA	1
1	9	PAOZZ	5305-00-682-5641	SMB288046-1	80063	SCREW,MACHINE	2T5	EA	12
1	10	PAOZZ	5330-00-682-4613	SMB288047	80063	PACKING,PREFORMED	2T5	EA	16
1	11	PAOZZ	5940-00-681-9921	SMC288043-1	80063	FANNING STRIP	2T5	EA	1

SECTION IV  
 NATIONAL STOCK NUMBER AND PART NUMBER INDEX

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STOCK NUMBER	FIG. NO.	ITEM NO.
5940-00-283-5386	1	6
5999-00-283-5393	1	5
5940-00-681-9921	1	11
5330-00-682-4613	1	10
5305-00-682-5636	1	3
5305-00-682-5641	1	9
6110-00-710-4344	1	4

STOCK NUMBER	FIG. NO.	ITEM NO.
6110-00-711-0377	1	4
5940-00-729-3016	1	7
5940-00-823-1804	1	6
5975-00-886-8155	1	8
5340-00-953-9018	1	2

PART NUMBER	FSCM	FIG. NO.	ITEM NO.
F18111	96344	1	4
SCC136011GP3	80063	1	6
SMB288046-1	80063	1	9
SMB288046-2	80063	1	3
SMB288047	80063	1	10
SMC288043-1	80063	1	11

PART NUMBER	FSCM	FIG. NO.	ITEM NO.
SMC288056	80063	1	2
SMC288943-2	80063	1	8
U106U	80058	1	6
1464-211	31550	1	7
1464-242	99872	1	4
315K433	01537	1	5

## APPENDIX C

### MAINTENANCE ALLOCATION

#### Section 1. INTRODUCTION

##### **C-1. General.**

This appendix provides a summary of the maintenance operations for the J-1077U/A and J-1077A/U. It authorizes categories of maintenance for specific maintenance functions on repairable items and components and the tools and equipment required to perform each function. This appendix may be used as an aid in planning maintenance operations.

##### **C-2. Maintenance Function.**

Maintenance functions will be limited to and defined as follows:

*a. Inspect* To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination.

*b. Test* To verify serviceability and to detect incipient failure by measuring the mechanical or electrical characteristics of an item and comparing those characteristics with prescribed standards.

*c. Service.* Operations required periodically to keep an item in proper operating condition, i.e., to clean (decontaminate), to preserve, to drain, to paint, or to replenish fuel, lubricants, hydraulic fluids, or compressed air supplies.

*d. Adjust.* To maintain, within prescribed limits, by bringing into proper or exact position, or by setting the operating characteristics to the specified parameters.

*e. Align.* To adjust specified variable elements of an item to bring about optimum or desired performance.

*f. Calibrate.* To determine and cause corrections to be made or to be adjusted on instruments or test measuring and diagnostic equipments used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.

*g. Install.* The act of emplacing, seating, or fixing into position an item, part, module (component or assembly) in a manner to allow the proper functioning of the equipment or system.

*h. Replace.* The act of substituting a serviceable like type part, subassembly, or module (component or assembly) for an unserviceable counterpart.

*i. Repair.* The application of maintenance services (inspect, test, service, adjust, align, calibrate, replace) or other maintenance actions (welding, grinding, riveting, straightening, facing, remachining, or resurfacing) to restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system. This function does not include the

trial and error replacement of running spare type items such as fuses, lamps, or electron tubes.

*j. Overhaul.* That maintenance effort (service/action) necessary to restore an item to a completely serviceable/operational condition as prescribed by maintenance standards (i.e., DMWR) in appropriate technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.

*k. Rebuild.* Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of materiel maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (hours, miles, etc.) considered in classifying Army equipments/components.

##### **C-3. Column Entries.**

*a. Column 1, Group Number.* Column 1 lists group numbers, the purpose of which is to identify components, assemblies, subassemblies, and modules with the next higher assembly.

*b. Column 2, Component/Assembly.* Column 2 contains the noun names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

*c. Column 3, Maintenance Functions.* Column 3 lists the functions to be performed on the item listed in column 2. When items are listed without maintenance functions, it is solely for purpose of having the group numbers in the MAC and RPSTL coincide.

*d. Column 4, Maintenance Category.* Column 4 specifies, by the listing of a "work time" figure in the appropriate subcolumn(s), the lowest level of maintenance authorized to perform the function listed in column 3. This figure represents the active time required to perform that maintenance function at the indicated category of maintenance. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance categories, appropriate "work time" figures will be shown for each category. The number of task-hours specified by the "work time" figure represents the average time required to restore an item (assembly, subassembly, component, module, end item or system) to a serviceable condition under typical field operating conditions. This time includes preparation time, troubleshooting time, and quality assurance/quality control time in addition to the time required to perform the specific tasks identified for the

maintenance functions authorized in the maintenance allocation chart. Subcolumns of column 4 are as follows

- C-Operator/Crew
- O-Organizational
- F-Direct Support
- H-General Support
- D-Depot

*e. Column 5, Tools and Equipment.* Column 5 specifies by code, those common tool sets (not individual tools) and special tools, test, and support equipment required to perform the designated function.

*f. Column 6, Remarks.* Column 6 contains an alphabetic code which leads to the remark in section IV, Remarks, which is pertinent to the item opposite the particular code.

**C-4. Tool and Test Equipment Requirements (Section III).**

*a. Tool or Test Equipment Reference Code.* The numbers in this column coincide with the numbers used in the tools and equipment column of the MAC. The

numbers indicate the applicable tool or test equipment for the maintenance functions.

*b. Maintenance Category.* The codes in this column indicate the maintenance category allocated the tool or test equipment.

*c. Nomenclature.* This column lists the noun name and nomenclature of the tools and test equipment required to perform the maintenance functions.

*d. National/NATO Stock Number.* This column lists the National/NATO stock number of the specific tool or test equipment.

*e. Tool Number.* This column lists the manufacturer's part number of the tool followed by the Federal Supply Code for manufacturers (5-digit) in parentheses.

**C-5. Remarks (Section IV).**

*a. Reference Code.* This code refers to the appropriate item in section II, column 6.

*b. Remarks.* This column provides the required explanatory information necessary to clarify items appearing in section II.

**(Next printed page is C-3.)**

SECTION II MAINTENANCE ALLOCATION CHART  
 FOR  
 DISTRIBUTION BOXES J-1077/U AND J-1077A/U

(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE CATEGORY					(5) TOOLS AND EQPT.	(6) REMARKS
			C	O	F	H	D		
00	DISTRIBUTION BOXES J-1077/U AND J-1077A/U	Inspect Test Test Service Repair Repair Rebuild	0.1  0.1	0.5  0.1	0.5  1.0		4.0	1 3  2 2,3 4	A

SECTION III TOOL AND TEST EQUIPMENT REQUIREMENTS  
 FOR  
 DISTRIBUTION BOXES J-1077/U AND J-1077A/U

TOOL OR TEST EQUIPMENT REF CODE	MAINTENANCE CATEGORY	NOMENCLATURE	NATIONAL/NATO STOCK NUMBER	TOOL NUMBER
1	O,F,H,D	MULTIMETER AN/URM-105	6625-00-581-2036	
2	O,F,H,D	TOOL EQUIPMENT TE-49	5180-00-408-1863	
3	F,H,D	MULTIMETER AN\USM-223	6625-00-999-7465	
4	D	CIRCUIT ANALYZER DIT-MOD (COMMERCIAL)		

SECTION IV. REMARKS

REFERENCE CODE	REMARKS
A	Continuity





By Order of the Secretary of the Army

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TECOM (2)	Sig FLDMS (1)
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OS Maj Comd (4)	7
TRADOC (2)	11-35
MDW (1)	11-38
Armies (2)	11-117
Corps (2)	11-127
Instl (2) except	11-137
Ft Gillem (10)	11-147
Ft Gordon (10)	11-205
Ft Huachuca (10)	11-207
Ft Carson (5)	11-215
SAAD (30)	11-217
LBAD (14)	11-225
TOAD (14)	11-226
SHAD (3)	11-227
HISA (Ft Monmouth) (33)	11-228
Ft Richardson (ECOM Ofc) (2)	11-247
Svc Colleges (1)	11-327
USAICS (3)	11-357
USAADS (2)	11-500 (AA-AC)
USAFAS (2)	31-105
USAARMS (2)	37
USAIS (2)	57
USAES (2)	67

*ARNG:* State AG (3); Units Same as Active Army except allowance is one (1) copy per unit.

*USAR:* None.

For explanation of abbreviations used, see AR 310-50.



RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL MANUALS



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DATE 10 July 1975

PUBLICATION NUMBER

TM 11-5840-340-12

DATE

23 Jan 74

TITLE

Radar Set AN/P-76

BE EXACT...PIN-POINT WHERE IT IS

PAGE NO.	PARA-GRAPH	FIGURE NO.	TABLE NO.
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2-25	2-28		
3-10	3-3	3-1	
5-6	5-8		

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

Recommend that the installation antenna alignment procedure be changed through to specify a 2° IFF antenna lag rather than 1°.

REASON: Experience has shown that with only a 1° lag, the antenna servo system is too sensitive to wind gusting in excess of 27 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.

Item 5, Function column. Change "2 db" to "3db."

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.

Add new step f.1 to read, "Replace cover plate removed in step e.1, above."

REASON: To replace the cover plate.

FO3

Zone C 3. On J1-2, change "+24 VDC to "+5 VDC."

REASON: This is the output line of the 5 VDC power supply. + 24 VDC is the input voltage.

TYPED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

SSG I. M. DeSpirito 999-1776

SIGN HERE:

*SSG I. M. DeSpirito*

DA FORM 2028-2 (TEST) 1 AUG 74

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PAGE NO.	PARA-GRAPH	FIGURE NO.	TABLE NO.

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