

TM 11-6660-219-20P

TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE REPAIR PARTS
AND SPECIAL TOOLS LISTS
FOR

RADIOSONDE BASELINE CHECK SETS
AN/GMM-1 AND AN/GMM-1A
(NSN 6660-00-527-8392)

HEADQUARTERS, DEPARTMENT OF THE ARMY

OCTOBER 1978

ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS
 FOR
 RAIDOSONDE BASELINE CHECK SETS
 AN/GMM-1 AND AN/GMM-1A
 (NSN 6660-00-527-8392)

Current as of 16 June 1978

REPORTING OF ERRORS

You can improve this manual by recommending improvements using DA Form 2028-2 located in the 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.

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

Table of Contents

		Page	Illus Figure
SECTION	I. Introduction	1	
	II. Repair parts list	5	
Group	00 Radiosonde Baseline Check Sets AN/GMM-1 and AN/GMM-1A	5	1,2
	01 Cable assembly, power (No parts authorized)		
	02 Cable assembly, power remote (No parts authorized)		
	03 Chamber, temperature-humidity	9	3
	04 Control, power supply	11	4
	05 Psychrometer assembly	13	5
	06 Test Set, Radiosonde TS-1348/GMM-1A	15	6-8
	07 Cable Assembly CX-10470/GMM-1A (No parts authorized)		
	08 Cable Assembly CX-10469/U (AN/GMM-1A) (No parts authorized)		
SECTION	III. Special tools list (Not applicable)		
	IV. National stock number and part number index	20	

*This manual supersedes TM 11-6660-219-20P, 24 November 1976.

SECTION I

INTRODUCTION

1. Scope.

This manual lists repair parts and special tools required for performance of organizational maintenance of the AN/GMM-1 and AN/GMM-1A.

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 alphameric 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:

<i>Code</i>	<i>Definition</i>
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.

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:

<i>Code</i>	<i>Application/Explanation</i>
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:

<i>Code</i>	<i>Application/Explanation</i>
O	- The lowest maintenance level capable of complete repair of the support item is the organizational level.
F	- The lowest maintenance level capable of complete repair of the support item is the direct 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:

<i>Recoverability codes</i>	<i>Definition</i>
Z	- Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.
F	- Repairable item. When uneconomically repairable, condemn and dispose at the direct support 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.

NOTE

Cannibalization or salvage may be used as a

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. The following publication pertains to the AN/GMM-1 and AN/GMM-1A and their components: TM 11-6660-219-12, Radiosonde Baseline Check Sets AN/GMM-1 and AN/GMM-1A

b. The illustrations in this manual are identical to those published in TM 11-6660-219-34P. 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 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.

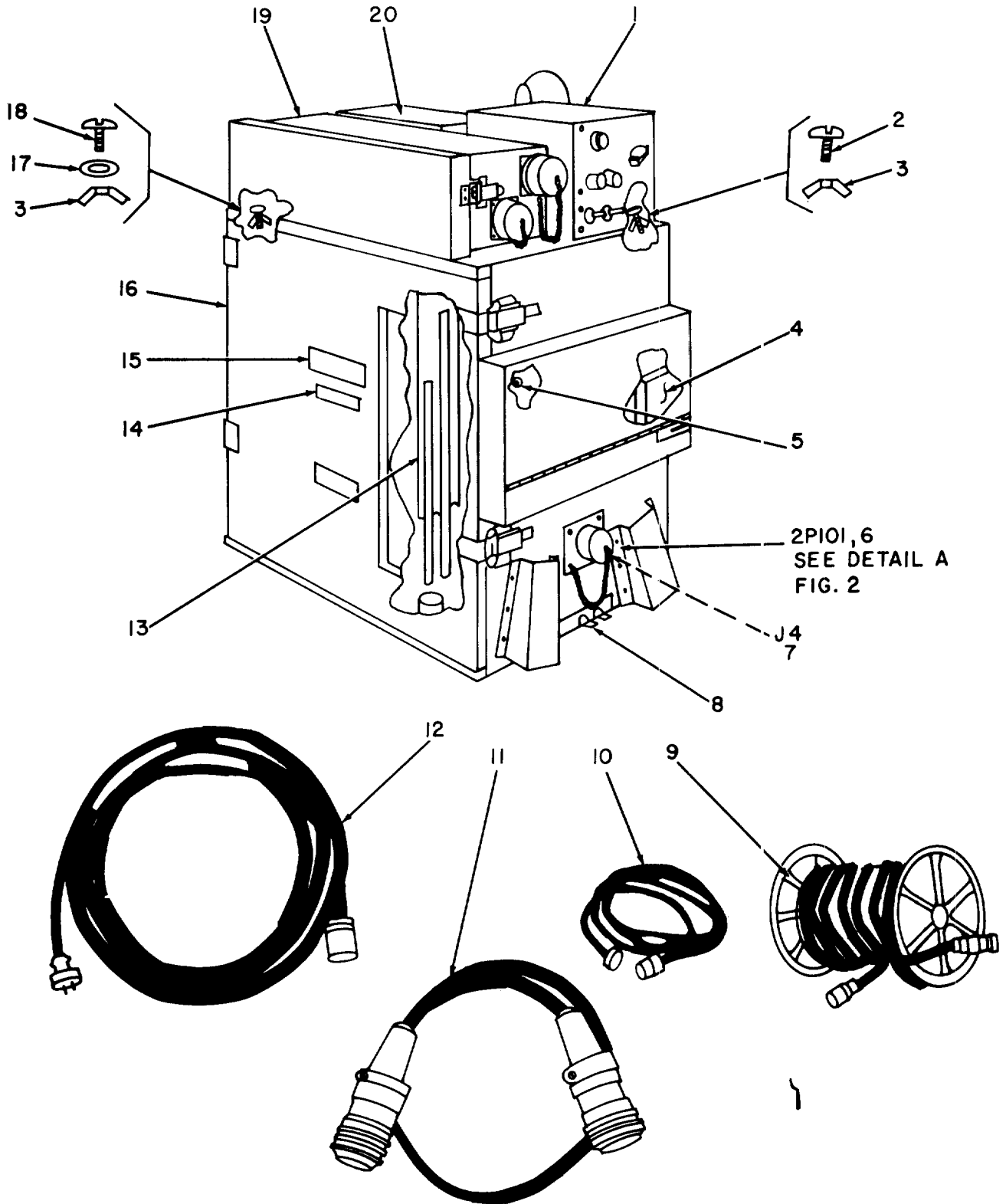
(1) *First* Using the Index of National Stock Numbers and Part Numbers, find the pertinent National stock number or part number. This index is in ascending NIIN sequence followed by a list of part numbers in ascending alphameric sequence, cross-referenced to the illustration figure number and item number.

(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)



ELOTG001

Figure 1. Radiosonde Baseline Check Sets AN/GMM-1 and AN/GMM-1A.

SECTION II

(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 00 RADIOSONDE BASELINE CHECK SETS

AM/GMM-1 AND AM-GMM-A1

1	1	XDOFF		SCD21343	80063	CONTROL UNIT, POWER SUPPLY	EA	1
1	4	PAOZZ	7610-00-408-4818	235	82187	BOOK, REFERENCE	EA	1
1	13	PAOOA	6660-00-223-5084	ML224	81349	PSYCHROMETER	EA	1
1	16	PAOFF	6660-00-527-8392	ANGMM1A	80058	CHAMBER, TEMPERATURE-HUMIDITY	EA	1
1	19	XDOFF		TS1348GMM1A	80058	RADIOSONDE TEST SET	EA	1

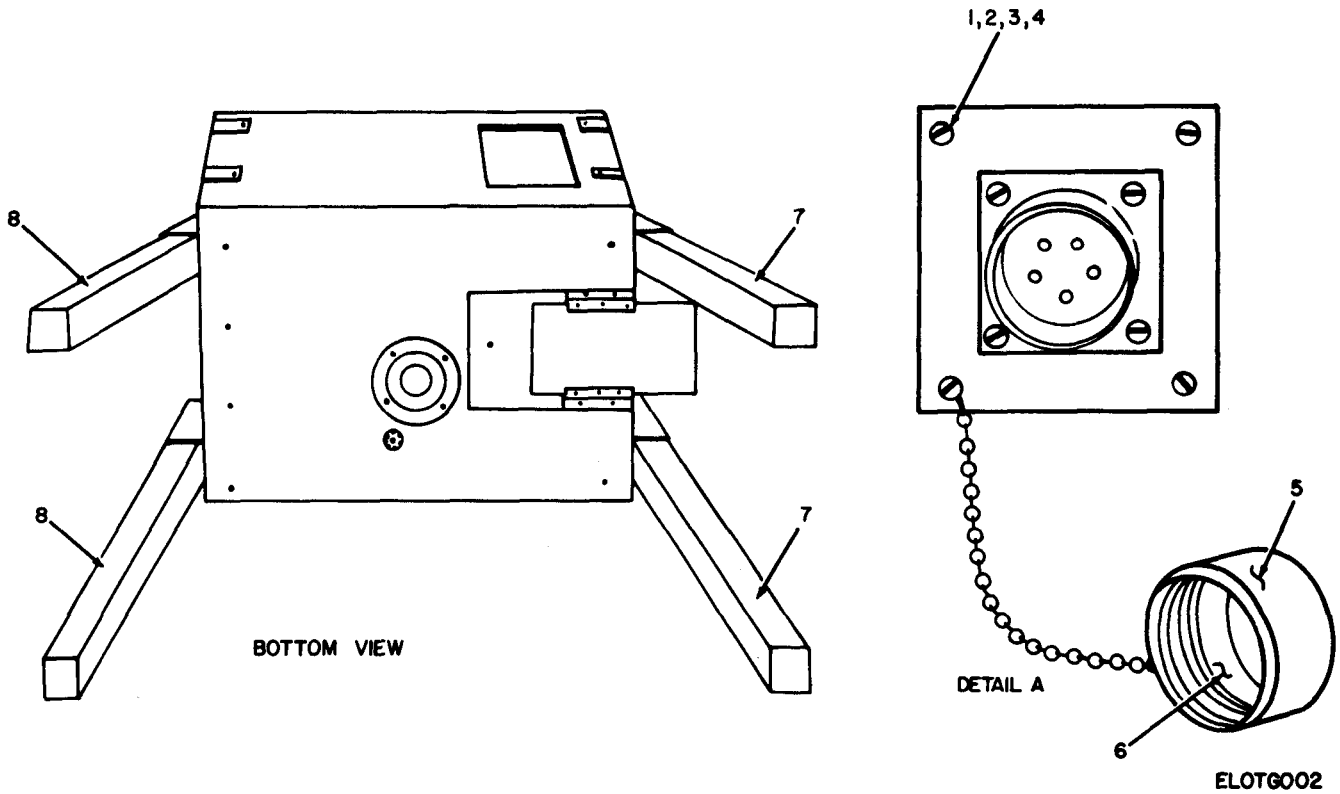


Figure 2. Radiosonde Baseline Check Sets AN/GMM-1 and AN/GMM-1A, Bottom View.

SECTION II

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
ILLUSTRATION		NATIONAL			DESCRIPTION		QTY
(A)	(B)	STOCK	PART				INC
FIG	ITEM	SMR	NUMBER	FSCM	USABLE ON CODE	U/M	IN
NO	NO	CODE	NUMBER				UNIT
2	5	PAOZZ	5935-00-578-2742	MS25043-24C	96906 CAP AND CHAIN		EA 1

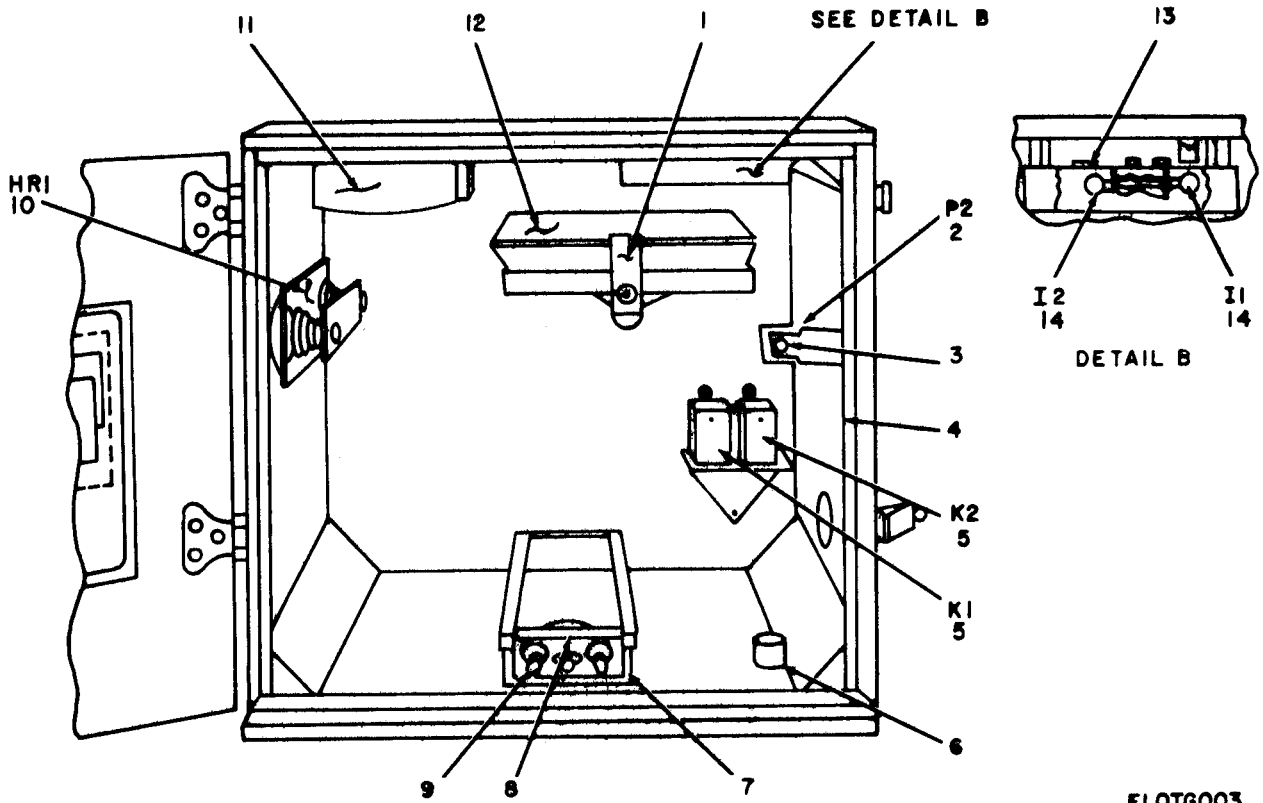


Figure 3. Chamber, Temperature-Humidity.

ELOTG003

SECTION II

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
ILLUSTRATION							
(A)	(B)	NATIONAL			DESCRIPTION		QTY
FIG	ITEM	SMR	STOCK	PART			INC
NO	NO	CODE	NUMBER	NUMBER	FSCM	USABLE ON CODE	U/M
							UNIT
GROUP 03 CHAMBER, TEMPERATURE-HUMIDITY							
3	6	PAOZZ	6685-00-309-5693	SCB21274	80063		EA 1
3	14	PAOZZ	6240-00-155-7949	IM27	80063		EA 2

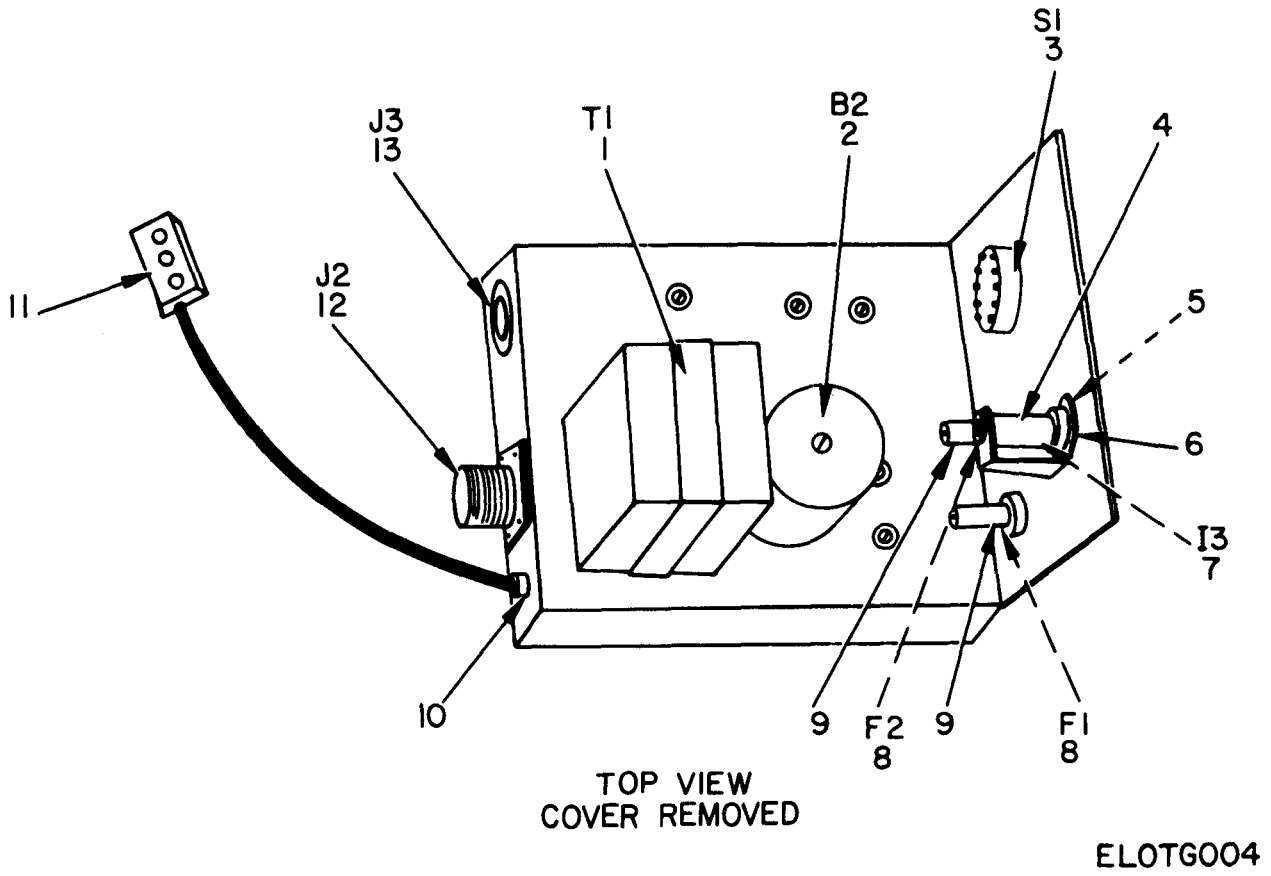


Figure 4. Control, Power Supply, Top View.

SECTION II

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
ILLUSTRATION		NATIONAL			DESCRIPTION		QTY
(A)	(B)	STOCK	PART				INC
FIG	ITEM	SMR	NUMBER	FSCM		USABLE ON CODE	U/M
NO	NO	CODE	NUMBER				UNIT

GROUP 04 CONTROL, POWER SUPPLY

4	5	PAOZZ	6210-00-228-6027	25CSP	72765	LENS, INDICATOR LIGHT	EA	1
4	7	PAOZZ	6240-00-155-7949	LM27	80063	LAMP	EA	1
4	8	PAOZZ	5920-00-474-5743	F02G3R00A	81349	FUSE, CARTRIDGE	EA	2

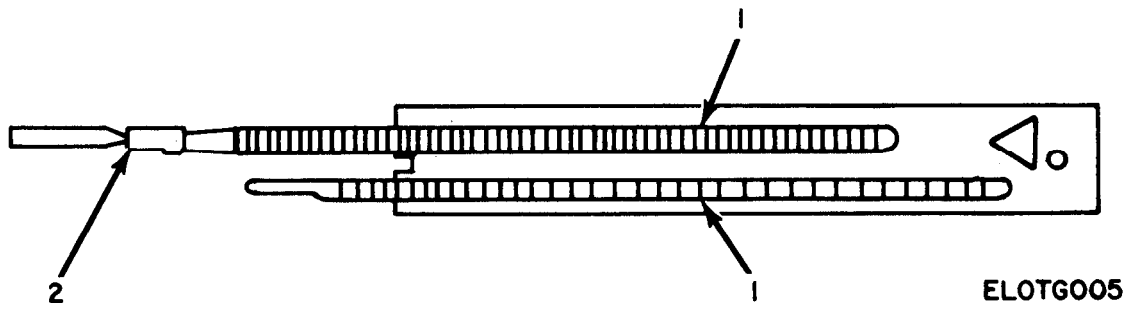
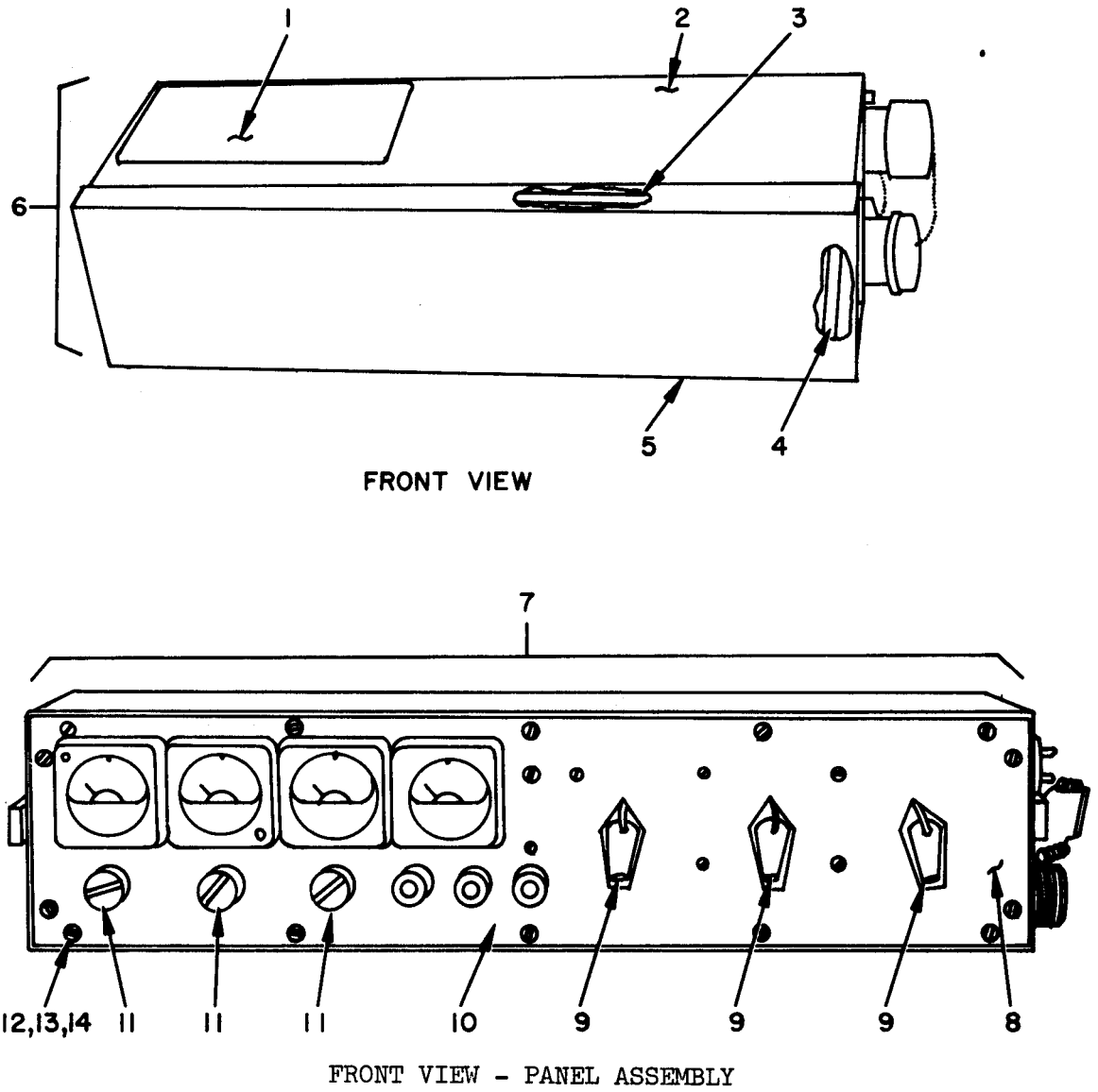


Figure 5. Psychrometer Assembly.

SECTION II

(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 05 PSYCHROMETER ASSEMBLY							
5	1	XDOZA		SCDL20624	80063	THERMOMETER, SELF INDICATED, LIQUID IN GLASS	EA 2
5	2	PAOZZ	9390-00-264-6158	109	74393	WICK	EA 1



ELOTG006

Figure 6. Test Set, Radiosonde TS-1348/GMM-1A, Front view.

SECTION II

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
ILLUSTRATION		NATIONAL			DESCRIPTION		QTY
(A)	(B)	STOCK	PART	FSCM		USABLE ON CODE	INC
FIG	ITEM	SMR	NUMBER	NUMBER			IN
NO	NO	CODE	NUMBER				UNIT
GROUP 06 TEST SET, RADIOSONDE TS-1348/GMM-1A							
6	1	XDOZZ	SMC444380	80063	SHEET, INSTRUCTION		EA 1
6	2	XDOFF	SMD444353-1	80063	CASE		EA 1
6	6	XDOFF	SMD444351	80063	CASE AND COVER ASSEMBLY		EA 1
6	7	XDOFF	SMD444353	80063	CASE ASSEMBLY		EA 1
6	8	XDOZZ	SMC444360	80063	PANEL		EA 1
6	9	PAOZZ	5355-00-160-5910	MS90120-2B01	96412	96412	EA 3
6	11	PAOZZ	5355-00-556-0151	MS91528-1D2B	96906	96906	EA 3

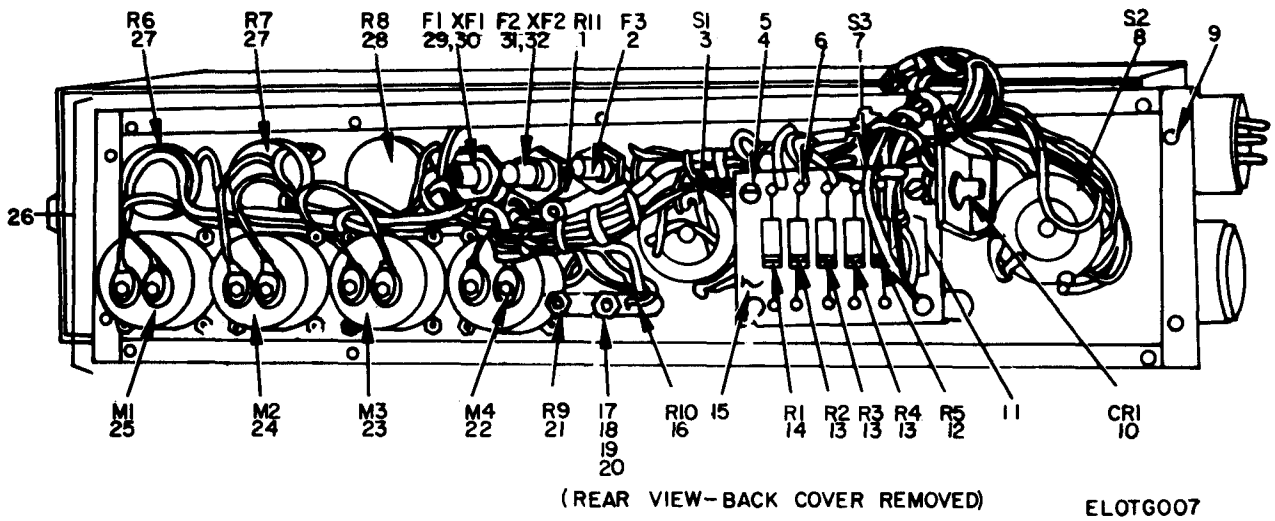
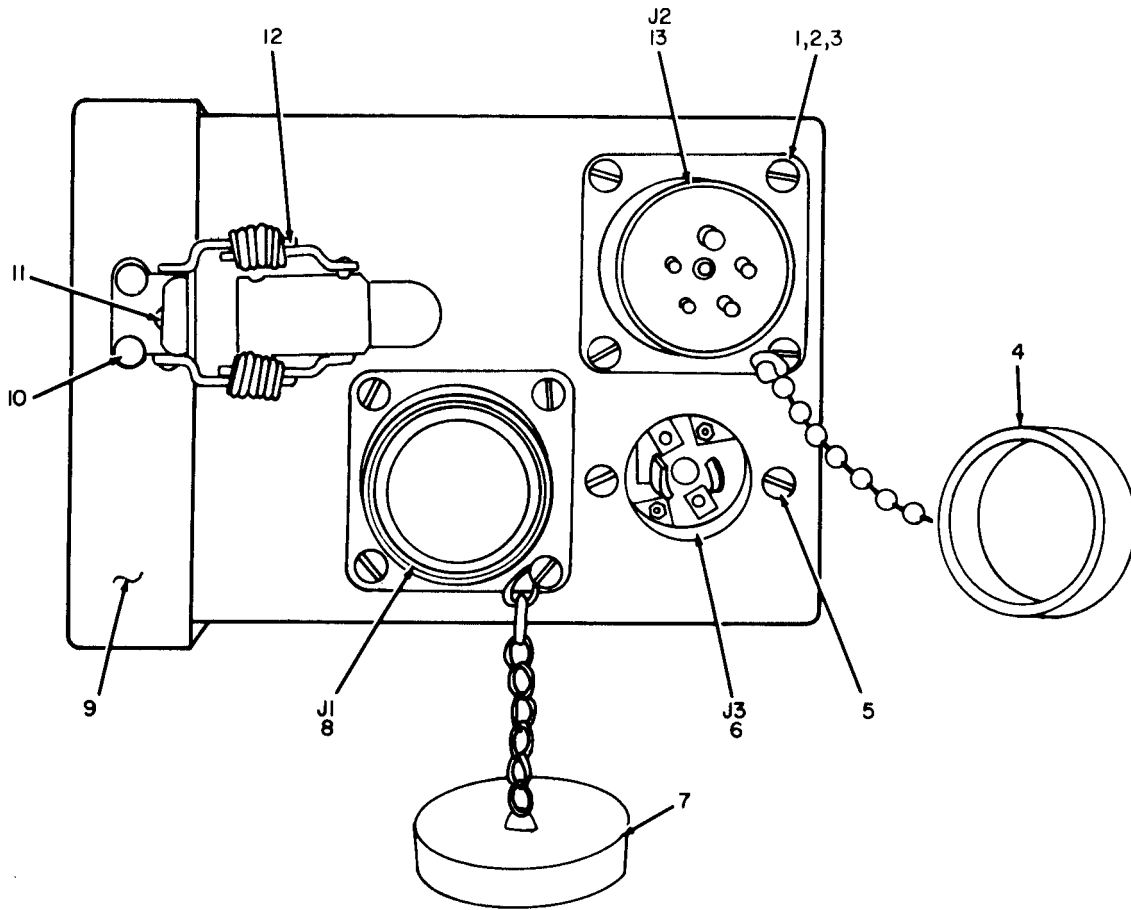


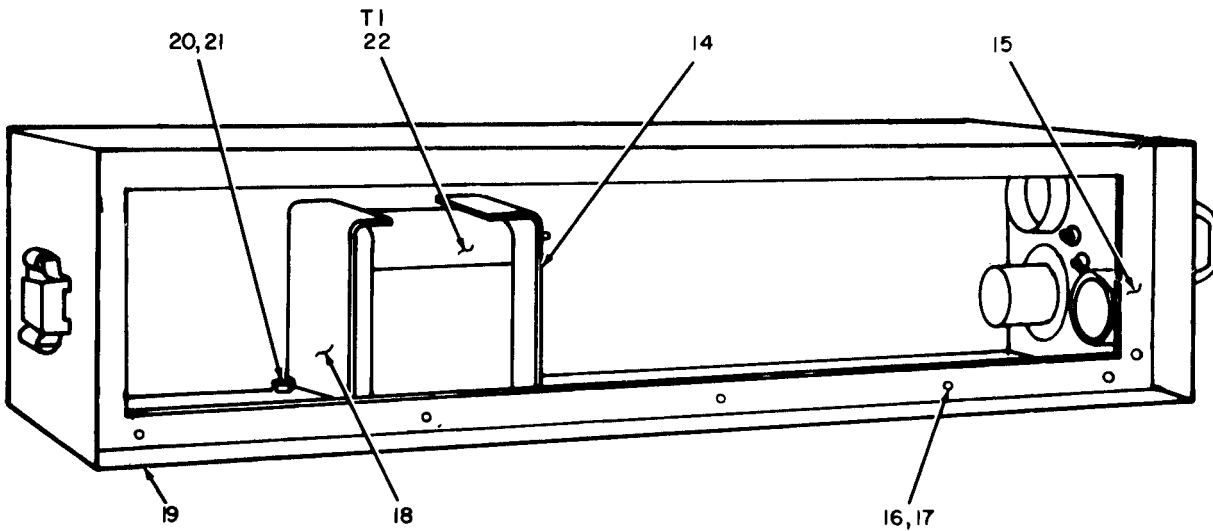
Figure 7. Test Set, Radiosonde TS-1348/GMM-1A, Rear View.

SECTION II

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
ILLUSTRATION		NATIONAL STOCK		DESCRIPTION		QTY	
(A)	(B)	SMR	STOCK	PART			INC
FIG	ITEM	CODE	NUMBER	NUMBER	FSCM	USABLE ON CODE	U/M
NO	NO						UNIT
7	2	PAOZZ	5920-00-280-8344	F02A250V1-2A	81349	FUSE,CARTRIDGE	EA 1
7	26	XDOFF		SMB444364	80063	TERMINAL BOARD ASSEMBLY	EA 1
7	29	PAOZZ	5920-00-232-3675	F01A250V1-16A	81349	FUSE,CARTRIDGE	EA 1
7	31	PAOZZ	5920-00-504-8634	F02B250V1-4A	81349	FUSE,CARTRIDGE	EA 1



END VIEW



BOTTOM VIEW, COVER REMOVED

ELOTG008

Figure 8. Test Set, Radiosonde TS-1348/GMM-1A, Right Side View and Front View (Cover and Front Panel Removed).

SECTION II

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
ILLUSTRATION		NATIONAL			DESCRIPTION		QTY
(A)	(B)	STOCK	PART	FSCM		USABLE ON CODE	INC
FIG	ITEM	SMR	NUMBER				IN
NO	NO	CODE	NUMBER				UNIT
8	4	PAOZZ	5935-00-578-2742	MS25043-24C	96906	CAP AND CHAIN	EA 1
8	7	PAOZZ	5935-00-937-3042	SMC444374	80063	CAP AND CHAIN	EA 1

SECTION IV

TM11-6660-219-20P

NATIONAL STOCK NUMBER AND PART NUMBER INDEX

NOTE: LATEST NATIONAL STOCK NUMBER ASSIGNMENTS ARE INCLUDED AT END OF INDEX

STOCK NUMBER	FIG. NO.	ITEM NO.
6240-00-155-7949	3	14
6240-00-155-7949	4	7
6660-00-223-5084	1	13
5920-00-232-3675	7	29
9390-00-264-6158	5	2
5920-00-280-8344	7	2
6685-00-309-5693	3	6
7610-00-408-4818	1	4
5920-00-474-5743	4	8
5920-00-504-8634	7	31
6660-00-527-8392	1	16
5355-00-556-0151	6	11
5935-00-578-2742	2	5
5935-00-578-2742	8	4
5935-00-937-3042	8	7

PART NUMBER	FSCM	FIG. NO.	ITEM NO.
ANGMM1A	80058	1	16
F01A250V1-16A	81349	7	29
F02A250V1-2A	81349	7	2
F02B250V1-4A	81349	7	31
F02G3R00A	81349	4	8
LM27	80063	3	14
LM27	80063	4	7
ML224	81349	1	13
MS25043-24C	96906	2	5
MS25043-24C	96906	8	4
MS90120-2B01	96412	6	9
MS91528-1D2B	96906	6	11
SCB21274	80063	3	6
SCD21343	80063	1	1
SCDL20624	80063	5	1
SMB444364	80063	7	26
SMC444360	80063	6	8
SMC444374	80063	8	7
SMC444380	80063	6	1
SMD444351	80063	6	6
SMD444353	80063	6	7
SMD444353-1	80063	6	2
TS1348GMM1A	80058	1	19
109	74393	5	2
235	82187	1	4
25CSP	72765	5	5

LATEST NATIONAL NUMBER ASSIGNMENTS

STOCK NUMBER	FIG. NO.	ITEM NO.
5355-00-160-5910	6	9
6210-00-228-6027	5	5



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TM 11-5840-340-12

DATE

23 Jan 74

TITLE

Radar Set AN/SPS-76

BE EXACT... PIN-POINT WHERE IT IS

PAGE NO.	PARAGRAPH	FIGURE NO.	TABLE NO.
2-25	2-28		
3-10	3-3		3-1
5-6	5-8		
		FO3	

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

Recommend that the installation antenna alignment procedure be changed throughout 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 20 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.

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.

TEAR ALONG DOTTED LINE

TYPED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

SSG I. M. DeSpirito 999-1776

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SSG I. M. DeSpirito

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

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TITLE

RADIOSONDE BASELINE CHECK SETS AN/GMM-1 AND AN/GMM-1A

BE EXACT...PIN-POINT WHERE IT IS

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

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

TEAR ALONG DOTTED LINE

TYPED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

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Ft Gillem (10)
Ft Gordon (10)
Ft Huachuca (10)
Ft Richardson (CERCOM Ofc) (2)
Army Dep (1) except
LBAD (14)
SAAD (30)
SHAD (3)
TOAD (14)
USA Dep (1)
Sig Sec USA Dep (1)

Units Under Org Fol TOE:

29-207
29-610 (2 cys each)
6-100
6-185
6-200
6-201
6-300
6-302
6-525
6-526
6-575
6-576
6-700
6-701
7
7-100
11-15
11-16
11-35
11-36
11-38
11-85
11-95
11-117
11-215
11-225
11-228
11-237
11-500 (AA-AC)
17
17-100
29-134
29-136
37
37-100
39-51
57
67 (1 copy each)

ARNG: State AG (3); Units - None

USAR: None

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

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DOD 314**

