DEPARTMENT OF THE ARMY TECHNICAL MANUAL

ORGAN!ZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST FOR AIRBORNE DATA ANNOTATION SYSTEM AN/AYA-10 (NSN 5895-00-235-4520)

Headquarters, Department of the Army, Washington, DC 30 September 1976

Current as of 11 August 1976

REPORTING OF ERRORS

You can improve this manual by recommending improvements using DA Form 2028-2 (Test) 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 Illus. Page Figure SECTION 1 II. Repair parts list **GROUP** Airborne Data Annotation System AN/AYA-10..... 1 Control Monitor C-8338/AYA-10 (A1)..... Case Assembly (1A1) (No parts authorized) 0101 Magnifier assembly (1A2) (No parts authorized) 0102 Switch assembly thumbwheel (1S6) (No parts authorized) 0103 0104 Switch assembly thumbwheel (1S3) (No parts authorized) Switch assembly thumbwheel (1S9) (No parts authorized) 0105 0106 Switch assembly thumbwheel (1S7) (No parts authorized) Circuit card assembly (1A3) (No parts authorized) 0107 Electronic component assembly (1TB1) (No parts authorized) 0108 Electron tube assembly (1A5) (No parts authorized) Converter, Signal Data CV-2647/AYA-10 (A2). Case, Fabrication assembly (2A22) (No parts authorized) Circuit card assembly (2A1) (No parts authorized) 0203 Circuit card assembly (2A2) (No parts authorized) 0204 Circuit card assembly (2A3) (No parts authorized) Circuit card assembly (2A4) (No parts authorized) 0205 0206 Circuit card assembly (2A5) (No parts authorized) 0207 Circuit card assembly (2A6) (No parts authorized) 0208 Circuit card assembly (2A7) (No parts auhorized) 0209 Circuit card assembly (2A3) (No parts authorized) 0210 Circuit card assembly (2A9) (No parts authorized) 0211 Circuit card assembly (2A10) (No parts authorid) 0212 Circuit card assembly (2A11) (No parts authorized) Circuit card assembly (2A12) (No parts authorized)

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^{*} This manual supersedes so much of TM 11-5850-242-12, 27 April 1973, as pertains to repair parts and special tools list.

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GROUP		0214 Circuit card assembly (2A13) (No parts authorized) 0215 Circuit card assembly (2A14) (No parts authorized) 0216 Circuit card assembly (2A15) (No parts authorized)
		0217 Circuit card assembly (2A16) (No parts authorized) 0218 Circuit card assembly (2A20) (No parts authorized) 0219 Heat sink assembly (2A21) (No parts authorized) 021901 Circuit card assembly (2A21A4) (No parts authorized)
SECTION	III. IV.	Special tools list (Not applicable) National stock number and part number index (Not applicable)

SECTION I

1. Scope

This manual lists repair parts and special tools required for performance of organizational maintenance of the AN/AYA-10.

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. Not applicable.
- 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) Rem 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.
- PD—Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or outfittings. Not subject to automatic replenishment.

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

- 0 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:

 Application/Explanation
- 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:

Recoverability

codes Definition

- Z -Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.
- D -Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot 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 (ea., 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.
- A **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/AYA-10 and its components:

TM 11-5850-242-12, Airborne Data Annotation System AN/AYA-10 (FSN 5895-235 '520)

b. The illustrations in this manual are identical to

those published in TM 11-5850-242-34P. 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

When National stock number or part number is unknown.

- a. 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.
- b Second. Find the illustration covering the functional group to which the repair part belongs.
- c *Third*. Identify the repair part on the illustration and note the illustration figure and item number of the repair part.
- d Fourth. Using the Repair Parts Listing, find the figure and item number noted on the illustration.
- 6. Abbreviations Not applicable.

(Next printed page is 4)



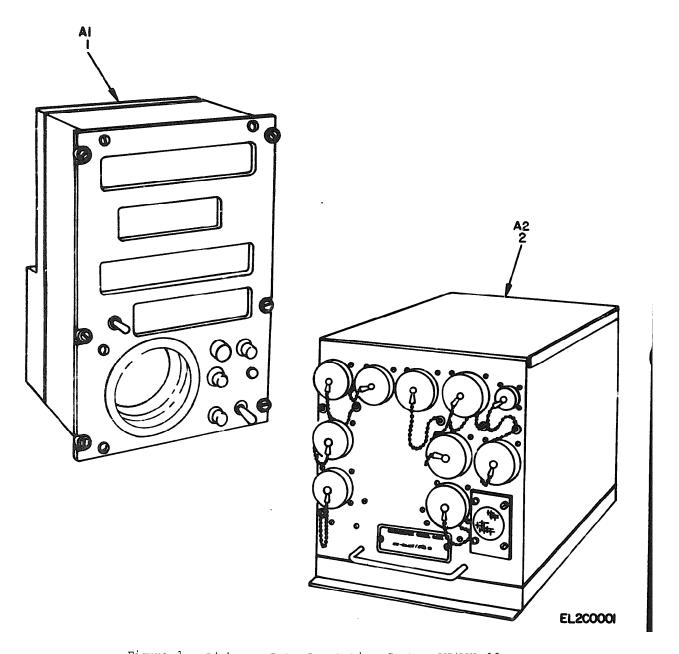


Figure 1. Airborne Data Annotation System AN/AYA-10.

SECTION II

TM 11-5850-242-20P

0		(2)	(8)	(4)	(5)	(6)	m	
(a) FIG YO	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION	u.	OTY INC IN UNIT
1	1 2	PDOHD PDOHD	5895-00-134-6462 5895-00-234-4519	677-2000-000-02 CV2647AYA10	86360 80058	USABLE ON CODE GROUP OO AIRBORNE DATA ANNOTATION SYSTEM AN/AYA-10 CONTROL,MONITOR C-8338/AYA-10 CONVERTER,SIGNAL DATA	EA EA	1
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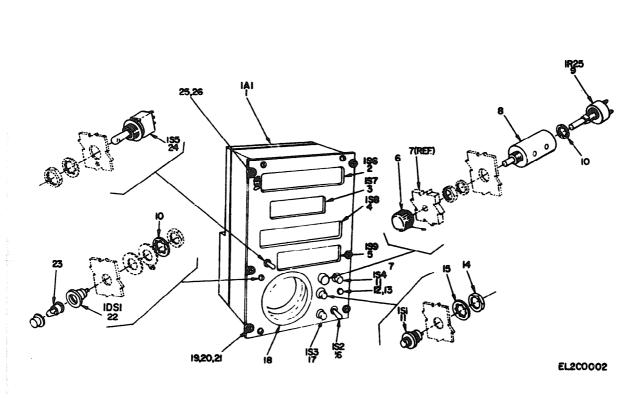


Figure 2. Control Monitor C-8338/AYA-10 (A1).

SECTION II TM 11-5850-242-20P

		SECTIO	N <u>I</u> I			TM 11-5850-242-20P		
(1)		(22)	(8)	(4)	(5)	(6)	(7)	(8)
	RATION (b)		NATIONAL		1	DESCRIPTION		OTY
MO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	USABLE ON CODE	u,M	UNIT
1								
	6	PAOZZ	5255 00 050 0700			GROUP O1 CONTROL MONITOR C-8338/AYA-10 (A1)	_	
2	23	PAOZZ	5355-00-850-9799 6240-00-752-2581	MS91528-ON1B MS24515-685	;	KNOB, CONTROL LAMP, INCANDESCENT	EA EA	
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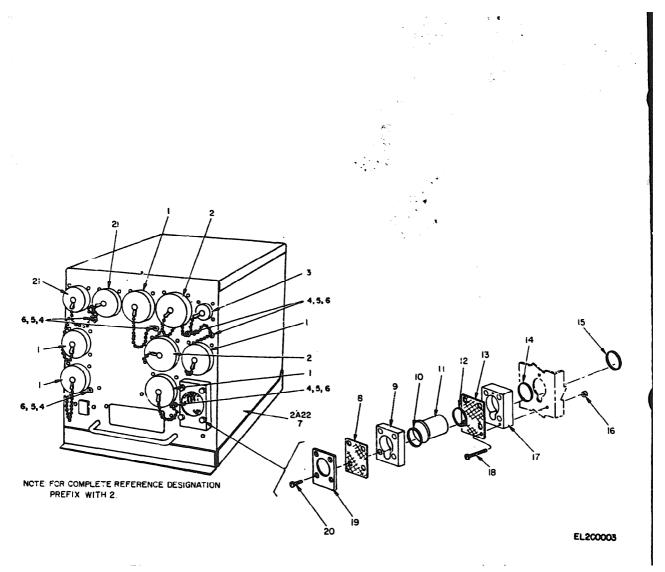


Figure 3. Converter, Signal Data CV-2647/AYA-10 (A.2).

SECTION II

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(a)	(b)		NATIONAL	·		DESCRIPTION	l	QTY
FIG NO.	ITEM NO.	SMR	STOCK NUMBER	PART NUMBER	FSCM	. USABLE ON CODE	U/M	IN
						GROUP: O2 CONVERTER, SIGNAL DATA CV-2647/AYA-10 (A2)		
3	1	PAOZZ	5935-00-655-1944	10-101960-203	77820	CAP, PROTECTIVE	EA	5
3	2	PAUZZ	5935-00-811-6893	10-101960-223	77820	CAP, PROTECTIVE	BA	5
3	3	PAOZZ	5935-00-813-4080	10-101960-103	77820	CAP, PROTECTIVE	BA	1
3	4	PAOZZ	5310-00-811-6419	MS21942-04	96906	NUT, SELF-LOCKING, HEXAGON	EA	6
3	5	PAOZZ	5310-00-782-1349	MS15795~804	96906	Washer, Flat	EA	6
3	6	PAOZZ	5305-00-054-5649	MS51957-15	96906	SCREW, MACHINE, PARHEAD	EA	6
3	21	PAOZZ	5935-00-089-1145	MS3181-18C	96906	CAP, PROTECTIVE	EA	2
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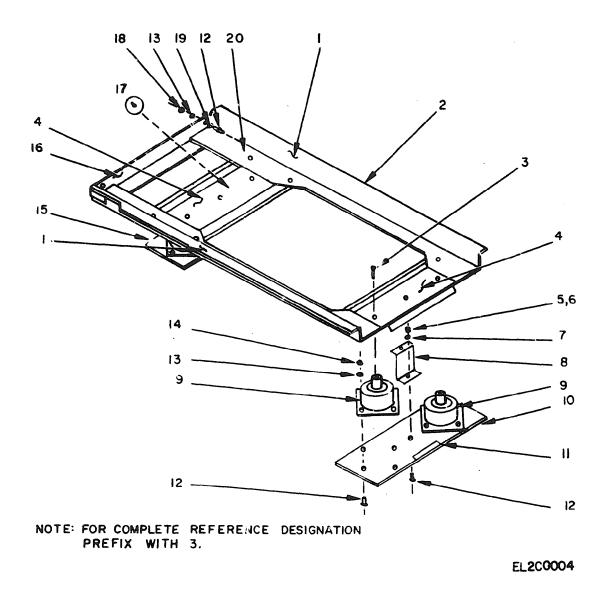


Figure 4. Mount, signal converter.

SECTION II TM 11-5850-242-20P

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	(6)		NATIONAL STOCK NUMBER	202	1	DESCRIPTION		QTY
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TM 11-5840-340-12 Radar Set AN/200-76 23 Jan 74 IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT: BE EXACT. . . PIN-POINT WHERE IT IS TABLE PARA-FIGURE NO. NO. 2-25 2-28 Recommend that the installation antenna alignment procedure be changed throughout paper specify a 2° IFF antenna lag rather than 10. REASON: Experience has shown that with only a 1º lag, the antenna servo system is too sensitive to wind gusting in excess of the knots, and has a tendency to rapidly accelerate and ecclerate as it hunts, causing strain to the drive train. Hunting is minimized by adjusting the lag to 20 without degradation of operation 3-10 3-3 3-1 Item 5, Function column. Change "2 db" to "3db." REASON: The justment procedure for the TRANS FOWER FAULT indicator calls for a 3 db (500 watts) adjustment to light the TRANS POWER FAULT indicator. 5-6 5-8 Add new step f.1 to read, "Replace cover plate removed ir above." REASON: To replace the cover plate. F03 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.

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