TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST

FOR

NAVIGATIONAL SETS, TACAN AN/ARN-103(V)1 (NSN 5826-00-167-1027) AND AN/ARN-103(V)2 (NSN 5826-00-167-1026) TECHNICAL MANUAL

No. 11-5826-243-20P

HEADQUARTERS DEPARTMENT OF THE ARMY WASHINGTON, DC, 18 Augu8t 1980

ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST

FOR

NAVIGATIONAL SETS, TACAN AN/ARN-103(V)1 (NSN 5826-00-167-1027) AND AN/ARN-103(V)2 (NSN 5826-00-167-1026)

Current as of 3 April 1980

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 20282 located in back of this manual direct to: Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSELME-MQ, Fort Monmouth, New Jersey 07703.

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

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| | 01 | | smitter, TACAN RT-1057/ARN-103(V) | 7 | 2 |
| | | 0101 | Chassis Assembly (Unit 1) (No parts authorized) | | |
| | | 0102 | Blower Assembly (1BI) (See Group 01 for listing of parts) | | |
| | | 0103 | Power Amplifier/Modulator Assembly (1A1) (No parts authorized) | | |
| | | 010301 | Tube Assemblies (1A2V1 thru 1A1V4) (No parts authorized) | | |
| | | 010302 | Modulator Driver Subassembly (1A1A6) (No parts authorized) | | |
| | | 010303 | Filament Regulator Assembly (1AIA7) (No parts authorized) | | |
| | | 0104 | Receiver Assembly (1RE1) (No parts authorized) | | |
| | | 010401 | Amplifier, 2nd IF (1Rel1R2) (No parts authorized) | | |
| | | 010402 | CCA, Self Test Yig Tuning (1RE1A1) (No parts authorized) | | |
| | | 010403 | Amplifier, 1st IF (1RE1AR1) (No parts authorized) | | |
| | | 0105 | Power Supply (1PS1) (No parts authorized) | | |
| | | 010501 | CCA, High Voltage (1PS1A6) (No parts authorized) | | |
| | | 010502 | Capacitor-Diode Assembly (1PSIA2) (No parts authorized) | | |
| | | 010503 | CCA, Power Supply (1PS1A1) (No parts authorized) | | |
| | | 010504 | Heat Exchange (IPSIA5) (No parts authorized) | | |
| | | 010505 | Capacitor Assembly (1PS1A3) (No parts authorized) | | |
| | | 010506 | Diode Assembly (1PS1A4) (No parts authorized) | | |
| | | 010507 | CCA, Power Supply (1PS1A7) (No parts authorized) | | |
| | | 0106 | Module Assembly, Decoder (1A3) (No parts authorized) | | |
| | | 010601 | CCA, Fast AGC Amplifier (1A3A1A3) (No parts authorized) | | |
| | | 010602 | CCA, AGC Sampling Amplifier (1A3A1A5) (No parts authorized) | | |
| | | 010603 | CCA, 135 Cycle Filter (1A3AlA7) (No parts authorized) | | |
| | | 010604 | CCA, 15 Cycle Filter (1A3AlA9) (No parts authorized) | | |
| | | 010605 | CCA, Pulse Height Detector (1A3A1A11) (No parts authorized) | | |
| | | 010606 | CCA, Slow AGC Amplifier (1A3A1A13) (No parts authorized) | | |
| | | 010607 | CCA, Pulse Space Decoder No. 3 (1A3A1A14) (No parts authorized) | | |
| | | 010608 | CCA, Data Rate Limiter (1A3A1A12) (No parts authorized) | | |

^{*}This manual, together with TM 11-5826-243-34P, 31 July 1980, supersedes TM 11-5826-243-24P, 28 March 1974.

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age Figure

| Group | 010609 | CCA, ID Tone-Driver (1A3A1A10) (No parts authorized) |
|-------|------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 0.00p | 010610 | CCA, Pulse Spacer Decoder No. 1 (1A3A1A8) (No parts authorized) |
| | 010611 | CCA, Pulse Space Decoder No. 4 (1A3A1A6) (No parts authorized) |
| | 010612 | CCA, Pulse Space Decoder No. 2 (1A3A1A4) (No parts authorized) |
| | 010613 | CCA, Pulse Space Counter No. 2 (1A3A1A2) (No parts authorized) |
| | 010614 | Decoder Connector Board (1A3A1A1) (No parts authorized) |
| | 0107 | Module Assembly, Internal Control (1A4) (No parts authorized) |
| | 010701 | CCA, Control Logic No. 1 (1A4A1A3) (No parts authorized) |
| | 010702 | CCA, Register Storage No. 1 (1A4A1A5) (No parts authorized) |
| | 010703 | CCA, Register Storage No. 2 (1A4A1A7) (No parts authorized) |
| | 010704 | CCA, Input, Clock Generator and 6.3V Reference (1A4A1A9) |
| | | (No parts authorized) |
| | 010705 | CCA, D/A Converter No. 1 (1A4AIAII) (No parts authorized) |
| | 010706 | CCA, D/A Converter No. 2 (1A4A1A13) (No parts authorized) |
| | 010707 | CCA, Resistor Network (1A4A1A14) (No parts authorized) |
| | 010708 010709 | CCA, Antenna Switching (1A4A1A12) (No parts authorized) CCA, D/A Converter Output (1A4A1A10) (No parts authorized) |
| | 010709 | CCA, Data Rate Decision (1A4A1A8) (No parts authorized) |
| | 010710 | CCA, Threshold Detector (1A4AIA6) (No parts authorized) |
| | 010711 | CCA, Register Storage No. 3 (1A4A1A4) (No parts authorized) |
| | 010713 | CCA, Control Logic No. 2 (1A4A1A2) (No parts authorized) |
| | 010714 | Internal Control Connector Board (1A41A1) (No parts authorized) |
| | 0108 | Module Assembly, Bearing Computer (1A5) (No parts authorized) |
| | 010801 | CCA, 1440 Counter Output Register No. 1 (1A5A1A3) |
| | | (No parts authorized) |
| | 010802 | CCA, 540 Cycle VCO (IA5AIA5 and 1A5A1A11) (No parts authorized) |
| | 010803 | CCA, 15 Cycle Loop No. 2 (1A5A1A7) (No parts authorized) |
| | 010804 | CCA, 15 Cycle Lock Detector (1A5A1A9) (No parts authorized) |
| | 010805 | CCA, 15 Cycle Loop No. 1 (1A5A1A13) (No parts authorized) |
| | 010806 | CCA, Shift Driver (1A5A1A15) (No parts authorized) |
| | 010807 | CCA, Reference Loop Lock Detector (1A5A1A14) (No parts authorized) |
| | 010808 010809 | CCA, 135 Cycle Loop No. 1 (A5A1A12) (No parts authorized) CCA, 135 Hz Lock Detector (IA5AIA10) (No parts authorized) |
| | 010809 | CCA, 135 Tiz Lock Detector (IASAIA10) (No parts authorized) CCA, 135 Cycle Loop No. 2 (1A5A1A8) (No parts authorized) |
| | 010811 | CCA, 21.6K Cycle VCO (1A5A1A6) (No parts authorized) |
| | 010812 | CCA, Reference Burst Loop (1A5A1A4) (No parts authorized) |
| | 010813 | CCA, 1440 Counter Output Register No. 1 (1A5A1A2) (No parts authorized) |
| | 010814 | Bearing Computer Connector Board (IA5AIAI) (No parts authorized) |
| | 0109 | Module Assembly, Range Computer (1A6) (No parts authorized) |
| | 010901 | CCA, Range Counter No. 1 (1A6A1A3) (No parts authorized) |
| | 010902 | CCA, Range Counter No. 2 (1A6A1A5) (No parts authorized) |
| | 010903 | CCA, Delay Counter (1A6A1A7) (No parts authorized) |
| | 010904 | CCA, Preset Logic (1A6A1A9) (No parts authorized) |
| | 010905 | CCA, PRF Generator (1A6A1A11) (No parts authorized) |
| | 010906 | CCA, HFC Zero Logic (1A6A1A13) (No parts authorized) CCA, Control Counter (1A6AIA15) (No parts authorized) |
| | 010907 010908 | CCA, Track Integrator (1A6A1A14) (No parts authorized) |
| | 010909 | CCA, VCO (1A6A1A12) (No parts authorized) |
| | 010910 | CCA, Track Loop No. 2 (1A6A1A10) (No parts authorized) |
| | 010911 | CCA, Track Loop No. 1 (1A6A1A8) (No parts authorized) |
| | 010912 | CCA, Majority Decision (1A6AIA6) (No parts authorized) |
| | 010913 | CCA, Range Limiter Shift Memory (1A6AlA4) (No parts authorized) |
| | 010914 | CCA, Range Delay (1A6AlA2) (No parts authorized) |
| | 010915 | Range Computer Connector Board (1A6A1A1) (No parts authorized) |
| | 0110 | Frequency Synthesizer Assembly (1A2) (No parts authorized) |
| | 011001 | Power AmplifierIX3 Multiplier Assembly (1A2A7) (No parts authorized) |
| | 01100101 | CCA, Power Amplifier/X3 Multiplier (1A2A7A1) (No parts authorized) |
| | 01100102 | CCA, Power Amplifier (1A2A7A2) (No parts authorized) CCA, Frequency Generator Control Divider (1A2A2) (No parts authorized) |
| | 011002 011003 | CCA, Frequency Generator Control Divider (TAZAZ) (No parts authorized) CCA, Loop Control (1A2A3) (No parts authorized) |
| | 011003 | CCA, Loop Control (1A2A3) (No parts authorized) CCA, Power Supply Self Test (1A2A4) (No parts authorized) |
| | 011004 | CCA, Oscillator Converter (1A2A5) (No parts authorized) |
| | 011005 | Oscillator Buffer Amplifier Assembly (1A2A6) |
| | 011000 | (No parts authorized) |
| | 01100601 | CCA, Buffer Amplifier (1A2A6A1) (No parts authorized) |
| | 01100602 | CCA, VCO High Frequency (1A2A6A3) (No parts authorized) |
| | | |

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| | | Ü |
|--------------|------------------|----------------------------------------------------------------------------------------|
| Group | 01100605 | CCA, Divide by 2 VCO Buffer (1A2A6A5) (No parts authorized) |
| | 011007 | Frequency Synthesizer Connector Board (1A2A1) |
| | | (No parts authorized) |
| | 01100603 | CCA, Isolation Amplifier (1A2A6A2) (No parts authorized) |
| | 01100604 | CCA, Divide by 4 VCO Buffer (1A2A6A4) (No parts authorized) |
| | 0111 | Module Assembly, Self Test (1A7) (No parts authorized) |
| | 011101 | CCA, Frequency Divider (1A7A1) (No parts authorized) |
| | 011102 | CCA, Modulator (1A7A2) (No parts authorized) |
| | 011103 | CCA, Signal Processor (1A7A3) (No parts authorized) |
| | 011104 | CCA, Range and Bearing Zero Check (1A7A4) |
| | | (No parts authorized) |
| | 011105 | CCA, Display Driver (1A7A5) (No parts authorized) |
| | 011106 | CCA, Go, No Go Logic (1A7A6) (No parts authorized) |
| | 011107 | CCA, Routine Control (1A7A7) (No parts authorized) |
| | 011108 | CCA, Pattern Decoder (1A7A8) (No parts authorized) |
| | 011109 011110 | CCA, Ring Counter (1A7A9) (No parts authorized) Self Test Interconnect Board (1A7A10) |
| | 011110 | (No parts authorized) |
| | 011111 | Oscillator Assembly 63 MHz (1A7Y1) (No parts authorized) |
| | 0112 | Cable Assemblies (1W1 thru 1W9) (No parts authorized) |
| | 0113 | Circulator Four Part, Coaxial (LHYI) (No parts authorized) |
| | 0114 | Coupler, Dual-Low Pass Filter (1FL1) |
| | 0114 | (No parts authorized) |
| 02 | Converter, Signa | I Data CV-29241ARN-103(V) (No parts authorized) |
| - | 0201 | Chassis Assembly, Converter (4A2) (No parts authorized) |
| | 020101 | Electronic Component Assembly, Converter (4A2A2) |
| | | (No parts authorized) |
| | 0202 | Range Coupler Assembly Module (4DC2) (No parts authorized) |
| | 020201 | CCA, Driver (4DC2A2) (No parts authorized) |
| | 020202 | CCA, D/A Converter SVO Amplifier (4DC2A1) |
| | | (No parts authorized) |
| | 020203 | Mechanical Assembly, Range Coupler (4DC2A4) |
| | | (No parts authorized |
| | 0203 | Bearing Coupler (4DC1) (No parts authorized) |
| | 020301 | CCA, Driver Phase Detector (4DC1A2) (No parts authorized) |
| | 020302 | CCA, D/A Converter SVO Amplifier (4DCiA1((No parts authorized) |
| | 020303 | Mechanical Assembly, Bearing Coupler (4DC1A4) |
| | 0204 | (No parts authorized) Interface Assembly, Module (4A3) (No parts authorized) |
| | 020401 | CCA, Request Decoder and Data Input (4A3A1A2) |
| | 020401 | (No parts authorized) |
| | 020402 | CCA, Control Logic (4A3A1A3) (No parts authorized) |
| | 020403 | CCA, Decoder and Transfer Logic (4A3A1A5) |
| | 020100 | (No parts authorized) |
| | 020404 | CCA, Data Multiplexer (4A3A1A6) (No parts authorized) |
| | 020405 | CCA, Control Word Storage (4A3A1A7) (No parts authorized) |
| | 020406 | CCA, Data Transfer to Storage (4A3A1A8) |
| | | (No parts authorized) |
| | 020407 | CCA, Level Converter (4A3A1A4) (No parts authorized) |
| | 020408 | Digital Interface Connector Board (4A3A1A3) |
| | | (No parts authorized) |
| | 0205 | Buffer Module Assembly (4A1) (No parts authorized) |
| | 020501 | CCA, Buffer (4A1A1) (No parts authorized) |
| | 0206 | Signal Adapter U[W CV-2924/ARN-103(V) (4A3) (No parts authorized) |
| 03 | | onal Set C-8968/ARN-103(V) (Unit 3) (No parts authorized) |
| | 0301 | Serial Data Generator (3A1) (No parts authorized) |
| | 0302 | 5 VDC Driver Electronic Component Assembly (3A2) |
| 0.4 | | No parts authorized) |
| 04 | 0401 | ARN-103(V) (Unit 2) No parts authorized) Adapter Assembly P/O MT-4411/ARN-103(V) (2A1) |
| | | No parts authorized) |
| SECTION III. | | List (Not applicable) |
| 3_011014111. | IV. | National Stock Number and Part Number Index8 |
| | | |

SECTION I

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 AN/ARN-103(V)1 and AN/ARN-103(V)2. 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 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 (SMIR) 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.
- 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 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.
- D The lowest maintenance level capable of complete repair of the support item is the depot
- 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.
- L Reparable item. Repair, condemnation, and disposal not authorized below depot/specialized repair activity 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. 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/ARN-103(V)1 and AN/ARN-103(V)2 and their components: TM 11-5826-243-20, Navigational Set, TACAN AN/ARN-103(V)

b. The illustrations in this manual are identical to those published in TM 11-5826-243-34P. 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 number 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)

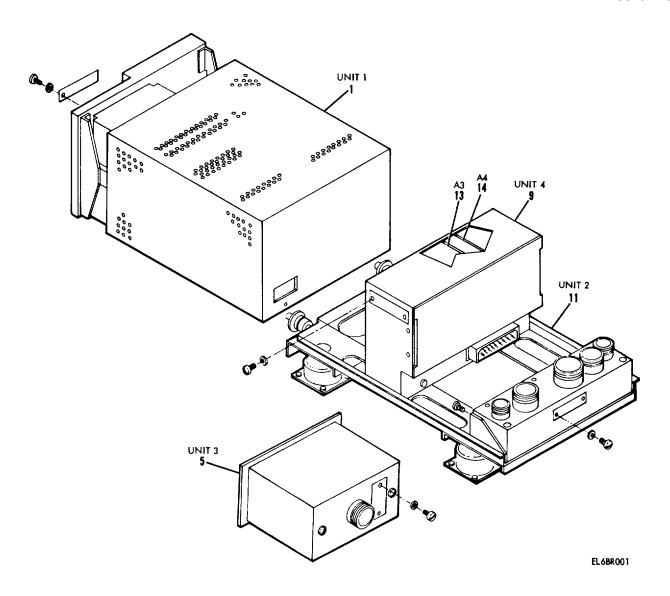


Figure 1. Navigational Set, TACAN AN/ARN-103(V)1, (V)2.

SECTION II TM 11-5826-243-20P

| | 1) RATION | (2) | (3) (4) (5) (6) DESCRIPTION | | (6) DESCRIPTION | (7) | (8) | |
|-------------------|--------------------|-------|-----------------------------|--------------------------|--------------------|------------------------------------------------------|-----|--------------------------|
| (a) FIG NO. | (b) ITEM NO. | | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | USABLE ON CODE | U/M | QTY INC IN UNIT |
| | | | | | | GROUP 00 NAVIGATIONAL SET TACAN AN/AR-103 V1, VZ | | |
| 1 | 1 | PDODD | 5826-00-626-8731 | RT-1OST/ARN-103(V) | | RECEIVER-TRANSMITTER TACAN RT-1057/ARN -103(V 41) | EA | 1 |
| 1 | 5 | PDODL | 5826-00-586-6177 | C-896B/ARN-103(V) | 80058 | CONTROL, NAVIGATIONAL SET.C-8968/ARN- 103(J 31 | EA | 1 |
| 1 | 9 | PDODD | 5826-00-565-0226 | CV-2924(P)ARN-10 3(V) | 80058 | CONVERTER, SIGNAL DATA CV-2924(P/ARN-103(V) 4) | EA | 1 |
| 1 | 11 | PAOHD | 5826-0-626-8730 | MT-4411/ARN-103((V) | 80058 | MOUNT, T-4411/ARN-103(V) (2) | EA | 1 |
| | | | | | | | | |
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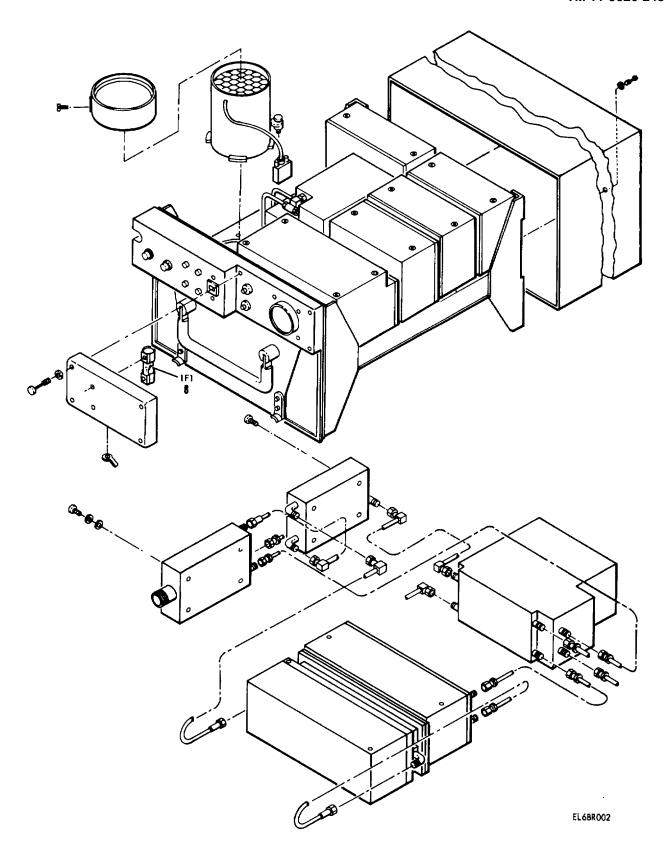


Figure 2. Receiver-Transmitter, TACAN RT-1057/AREN-10.3(V).

SECTION II TM 11-5826-243-20P

| ILLUS | (1) TRATION | (2) | (3) | (4) | (5) | (6) DESCRIPTION | (7) | |
|-------------------|--------------------|-------------|-----------------------------|----------------|-------|----------------------------------------------------------------------------|-----|--------------------------|
| (a) FIG NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART Number | FSCM | USABLE ON CODE | U/M | QTY INC IN UNIT |
| 2 | 8 | PAOZZ | 5920-01-006-2768 | F02B125V4A | 81349 | GROUP 01 RECEIVEE TRANSMITTER TACAN RT-1057/ARN-103 V1, V2 FUSE, CARTRIDGE | EA | 1 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | 7 | | | |

| SECTION IV | | | | TM 11-582 | 6-243-20P | 3-20P | |
|------------------|---------------|-------------|--------------------------|----------------|-------------|-------|--|
| | | TOCK NUMBI | ER AND PART NUMBER INDEX | | | | |
| STOCK NUMBER | FIGURE NO. | ITEM NO. | STOCK NUMBER | FIGURE. NO. | ITEM NO. | | |
| 5826-00-565-0226 | 1 | 9 | 5826-00-626-8731 | 1 | 1 | | |
| 5826-00-586-6177 | 1 | 5 | 5920-01-006-2768 | 2 | 8 | | |
| 5826-00-626-8730 | 1 | 11 | | | | | |

| PART NUMBER | FSCM | FIG. NO. | ITEM NO. | PART NUMBER | FSCM | FIG. NO. | ITEM NO. |
|---------------------|-------|-------------|-------------|--------------------|-------|-------------|-------------|
| C-8968/ARN-103(V) | 80058 | 1 | 5 | NT4411/ARN-103(V) | 80058 | 1 | 11 |
| CV-292(P)ARN-103(V | 80058 | 1 | 9 | RT-1057/ARTN-103V) | 80058 | 1 | 1 |
| F02B125V4A | 81349 | 2 | 8 | , | | | |

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