

**TB 11-5841-305-23**

**TECHNICAL BULLETIN**

**WARRANTY TECHNICAL BULLETIN**

**FOR**

**CV-3338B/ASN-128D SIGNAL DATA CONVERTER**

**(NSN 5895-01-518-8783) (EIC: N/A)**

**DISTRIBUTION STATEMENT A.** Approved for public release; distribution is unlimited

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**HEADQUARTERS, DEPARTMENT OF THE ARMY**

**01 April 2006**



## List of Effective Pages

NOTE: Zero in the "Change No." Column indicates an original page or work package.

Date of issue for the original manual is:

Original 01 April 2006

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**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. We'd prefer that you submit your recommended changes electronically, either by e-mail ([AMSEL-LC-LEO-PUBS-CHG@mail1.monmouth.army.mil](mailto:AMSEL-LC-LEO-PUBS-CHG@mail1.monmouth.army.mil)) or online (<http://edm.monmouth.army.mil/pubs/2028.html>). Alternatively, you may mail or fax your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms) or DA Form 2028-2 located in back of this manual to: Commander, US Army Communications-Electronics Life Cycle Management Command (CE-LCMC), Fort Monmouth, ATTN: AMSEL-LC-LEO-E-ED, Fort Monmouth, NJ 07703-5006. The fax number is 732-532-3421, DSN 992-3421.

In any case, we will send you a reply.

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**1. GENERAL.**

The CV-3338B/ASN-128D Signal Data Converter (SDC), NSN 5895-01-518-8783, procured under LRIP contract # DAAB07-01-C-B014, and the SDC including Shop Replaceable Assemblies (SRAs), hereafter referred to as the SDC and SRAs, procured under the full rate production contract with solicitation number W15P7T-05-R-A004, are under warranty for a period of five (5) years. The SRAs consist of the Doppler Module Assembly, the GPS Module Assembly and the Power Supply Assembly. The warranty period begins when the SDCs or SRAs are shipped out of BAE Systems in Wayne, NJ. The warranty period ends exactly five years after the initial warranty date.

**2. EXPLANATION OF TERMS.**

The following definitions are applicable to this WTB:

- a) **Abuse.** The improper use, repair, or handling of warranted items such that the warranty may become void.
- b) **Acceptance Date.** The date an item of equipment is accepted into the Army's inventory by the execution of the acceptance block and signing of a DD Form 250 or approved acceptance document by an authorized representative of the Government.
- c) **Alterations/Modifications.** Any alteration after production such as retrofit, conversion, remanufacture, design change, engineering change and the like.
- d) **Consolidated Warranty Technical Bulletin.** A WTB that covers a multiple number of equipment or systems.
- e) **Contractor Support.** Those services that are to be performed and those responsibilities that are placed upon the contractor by the Government as specified in the warranty contract/provisions. This support, which may include such things as labor, parts, tools, training, technical packages, etc., will be used in support of the warranted equipment during the specified warranty period.
- f) **Correction.** Elimination of a defect and restoration of the equipment to required operational status.
- g) **Defect.** Any condition or characteristic in any supplies or services furnished by the contractor under the contract that is not in compliance with the requirements of the contract. Also a deficiency in or insufficiency of the system or its components to perform in accordance with the requirements of the contract and/or to conform to the requirements of the contract.
- h) **DCMA.** Defense Contract Management Agency.

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- i) **Design and Manufacturing Requirements.** Structural and engineering plans and manufacturing particulars, including precise measurements, tolerances, materials, and finished product tests for the weapon system being produced. These include the interchangeability of subassemblies on a form, fit, and function basis for all identical contractor type designated end items.
- j) **Failure Item.** Failure is defined as any deficiency condition, or defect in a supply that results in SDC performance outside the acceptable technical limits specified in the systems requirements document. Failures are further defined as any tripped fault indicators, any BIT failure indication, a false BIT indication, a malfunction and/or a reduction in the performance of the supplies below contract requirements. All systems returned to the contractor's facility for repair shall be considered a valid failure until proven otherwise to the Government's satisfaction/approval at the failure review board.
- k) **Full-Rate Production.** Those quantities delivered after satisfactory completion of the First Article Test and Initial Low Rate Production.
- l) **Prime Contractor.** A party that enters into an agreement directly with the United States to furnish part or all of a weapon system.
- m) **Repair.** To restore an item to serviceable condition without affecting the warranty.
- n) **RTOK.** Return-Test OK, No fault Found
- o) **Supplies.** End items and components thereof.
- p) **Verification.** The process of determining the accuracy and adequacy of the Warranty TB developed by the government. This process is performed by the Government/user.
- q) **WARCO.** Warranty Control Office that serves as the intermediary between the units owning the equipment and the local dealer, contractor, or manufacturer. All warranty claim actions will be processed through the WARCO.
- r) **Warranty.** A promise or statement of fact from a seller to a purchaser on the nature, usefulness, or condition of the supplies or performance of services to be furnished. The main purpose of a warranty in a Government contract is to outline the rights and obligations of the contractor and the Government for defective items and services.
- s) **Warranty Claim.** The action started by the equipment user to request, from the contractor, repair or replacement of a failed item.
- t) **Warranty Period.** The duration of time over which the warranty is in effect. This duration of time is normally measured as the maximum number of years, months, days, miles, or hours that an item is used.
- u) **Warranty Start Date.** The date the warranty is put into effect.



**3. COVERAGES-SPECIFIC.**

The specific coverage's as delineated in the warranty contract are outlined below:

Equipment:	
Manufacturer:	BAE Systems
CAGE:	ODODO
NSN:	5895-01-518-8783
Part Number:	P320A002-03
Contract:	DAAB07-01-C-B014

The items covered by this warranty are the CV-3338B/ASN-128D Signal Data Converter (SDC) and the SRAs. The SDC units are under warranty for a period of five (5) years beginning on the date of acceptance by the government. The specific warranty is that, notwithstanding inspection and acceptance by the government of equipment furnished under this contract or any provision of this contract concerning the conclusiveness thereof, and subject to the qualifications herein, the contractor guarantees that equipment delivered under this contract and each component thereof called for by the terms and conditions of this contract and any amendments thereto:

- a. are produced so as to conform to all designs and manufacturing requirements and shall operate in their intended environment IAW specifications and/or drawings.
- b. are free from defects in material, and workmanship which would cause the supplies to fail to conform to the specified performance requirements of the contract.
- c. shall operate in the intended environment IAW specifications and/or drawings.

**4. COVERAGE EXCLUSIONS.**

- a. The contractor shall not be responsible under this warranty clause for the correction of defects in resulting from Government-furnished property.
- b. The Contractor shall not be obligated to repair or replace supplies under the provisions of this warranty clause if loss or damage occurs by reason of SDC induced fire, explosion, or aircraft crash; acts of God such as flood, hurricane, tornado, and earthquake; or combat damage.
- c. The Contractor shall not be obligated under this warranty to: repair or replace supplies rendered inoperable by unauthorized maintenance by Government personnel (authorized maintenance is defined in the respective Technical Manuals); repair external physical damage caused by accidental or willful mistreatment by noncontractual personnel (while outside of the Contractor's facilities and control responsibility); repair internal damage which, in the determination of the Government Contracting Officer was caused by accompanying external damage as stated above.

**5. CONTRACTOR RESPONSIBILITIES.**

The responsibilities of the contractor with regard to warranty coverage are delineated below:

- a. The contractor will immediately proceed with the repair, and within a reasonable time, not to exceed thirty (30) working days, correct the failure and present to the government for return. If the designated corrective action cannot be completed within that thirty (30) day period, the contractor shall notify the contracting officer of such inability and request additional time to perform.
- b. In the event it is later determined that the failure was not subject to the warranty set forth in paragraph 5a above, the items will be accountable under provisions of the SDC contracts.
- c. If an item with an alleged defect is returned to the contractor and the contractor determines that no failure exists, i.e., Return-Test OK (RTOK), the item shall be returned to the Government.
- d. When items covered under this warranty are returned to the contractor from the field, the contractor will bear the shipping costs for items being returned back to the field.
- e. The contractor shall maintain warranty data records and make them available to the government upon request.
- f. The contractor shall insure that all SDC returns are identified and controlled by the correct contract.

**6. GOVERNMENT RESPONSIBILITY/IDENTIFICATION.**

The Government will:

- a. Operate and maintain the supplies in accordance with applicable technical manuals. Troubleshooting, failure verification, and BIT shall be accomplished to the extent possible IAW applicable technical manuals.
- b. Return the failed units to the contractor for failure analysis and/or replacement. Supplies will be shipped in approved packaging as recommended by the contractor and approved by the Government.
- c. To the extent practical, furnish failure circumstance information with each returned unit. This is to include completed AFTO 350 "Repairable Item Tag", VIDS/MAF (OPNAV Form 4790/60), Exchange Tag, or DA Form 2402 (Army), as appropriate.

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- d. Provide shipping instructions to the contractor for any units repaired at the Contractor's facility.
- e. Responsible Agency. The agency for administrative functions relative to assuring that the pertinent warranty program is effective is:

Army Project Manager, Aviation Mission Equipment

POC: Mr. Paul Bray, ILS Manager  
E-Mail: paul.bray@peoavn.redstone.army.mil  
DSN: 746-3382  
Commercial: (256) 876-3382

POC: Mr. Kim Dahabsu  
E-Mail: kim.dahabsu@us.army.mil  
DSN: 992-3168  
Commercial: (732)532-3168

### 7. SPECIAL HANDLING AND/OR CARE.

- a. Government Maintenance. The Aviation Intermediate Maintenance (AVIM) facility will identify and replace defective SRAs. If AVIM cannot fault isolate to a particular SRA then the SDC will be shipped to the contractor for test and repair.
- b. Owning Unit Responsibilities. Upon occurrence of a malfunction, the owning unit is responsible for completion of DA Form 2402, Appendix A "Exchange Tag" and DA Form 2407 (TAMMS)/5504 (SAMS), Appendices B and C respectively, "Maintenance Requests." These forms are to be placed together in the shipping container () with the failed SDC unit for return to the Contractor's facility at:

BAE Systems Logistics Repair  
CNIR  
150 Parish Dr  
Wayne, NJ 07474-0984

MARKED FOR: CV-3338B/ASN-128D Warranty Return

- c. Warranty Control Office Responsibilities. AR 700-139 specifies that Maintenance Request DA 2407 (TAMMS)/5504 (SAMS) is the required form to file Warranty Claim Actions (WCAs). This form should be processed through the local WARCO and completed and distributed in accordance with DA Pamphlet 738-751 and this bulletin.
- d. Army Oil Analysis Program (AOAP). Not applicable.
- e. Alterations/Modifications. Not applicable.

**8. NULLIFICATION.**

The warranty provisions of this contract do not apply to the correction of defects resulting from Government-furnished property, except for defects in installation, or unless the Contractor performs, or is obligated to perform, any modifications or other work on such property.

**9. ABUSE DETERMINATION.**

When a SDC is received at the contractor's plant, specified in paragraph 7, which shows evidence of unauthorized maintenance actions, physical abuse or shipping and handling, immediate notification will be made to the DCMA quality representative. The report provided by the DCMA representative of such damage or unauthorized maintenance, together with an initial estimate of the cost to restore the unit Ready for Issue (RFI) status, will be forwarded to the Contracting Officer for final disposition.

**10. ABUSE AVOIDANCE.**

When abuse has been determined to have occurred, either intentional or unintentional, the contractor and/or DCMA representative shall advise the Contracting Officer and WARCO of possible corrective actions to avoid future abuse of the SDC.

**11. CLAIM PROCEDURES.**

- a. Identification of Failed Items. The Government shall clearly tag/identify failed warranty items to prevent improper repair or use. Use DA Form 2402 Exchange Tag and DA Form 2407 (TAMMS)/5504 (SAMS) Maintenance Request and Component Removal and Repair/Overhaul Record DA 2410.
- b. Notification. The Government shall notify PM AME of the failed warranty item by contacting one of the POCs in Paragraph 6e of this document.
- c. Return of Warranted Unit. The Government shall return the defective warranted item to the address in paragraph 7 above.
- d. Disposition
  - (1) False Returns. SDC units returned to BAE Systems that are covered under this warranty and are determined to be serviceable will be sent back to the Government.
  - (2) Receipts/Verification of Contractor Repairs. Since organizational test equipment is not required, operational testing of the

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SDC is verified by installation in an aircraft and performance of the on-board self-test function in accordance with the applicable aircraft Technical Manual (TM) TM 11-1520-237-23 and TM 11-1520-240-23.

- (3) Special Area Requirements. N/A

### **12. CLAIM DENIALS/DISPUTES.**

When the contractor's denial of a warranty claim is disputed by the PCO and the contractor is ordered to repair the equipment under the contract, the contractor may seek remedy pursuant to the disputes clause of the referenced contract.

### **13. REPORTING.**

Reporting or recording action on a failed item shall be as specified by serial number for each item under warranty. A copy of the records shall be made available to the Government as required and shall be available for review during the warranty period.

### **14. STORAGE/SHIPMENT/HANDLING.**

The requirements for storage, shipment, and handling are covered below:

- a. Storage. The SDC should be stored in a safe, dry environment until required for use.
- b. Shipment. The SDC shall be packed in the SDC reusable shipping container when returning to the contractor.
- c. Handling. The SDC contains electronic parts , therefore, care must be exercised when handling the unit. Avoid shock due to dropping or bumping and ensure that unit is transported in its shipping container.

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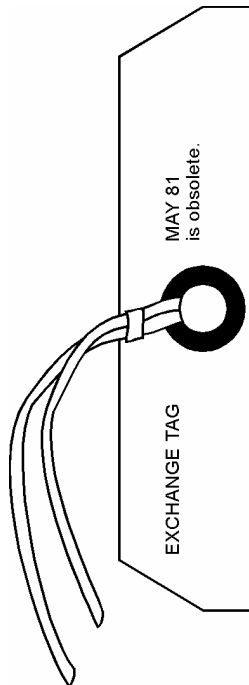
COMPONENT REMOVAL AND REPAIR/OVERHAUL RECORD										REQUIREMENT CONTROL SYMBOL	
For use of this form, see DA PAM 7387.57; the proponent agency & DC&LOS										CSGLD-1052 (R3)	
SECTION I - IDENTIFICATION											
CONTROL NUMBER		1. NOMENCLATURE			2. NSN			3. PART NUMBER			
4. SERIAL NUMBER		5. CAGE CODE	6. NO. OF PREV Q/Hs		7. TIME SINCE LAST INST (HRS)		8. TIME SINCE NEW (HRS)	9. TIME SINCE OVERHAUL (HRS)		10. FAILURE CODE	
11. WUC		12. POSITION CODE			13. COMPONENT CUMULATIVE COUNTS/HOURS						
					13a. LCF 1	13b. LCF 2	13c. TTI	13d. OP HOURS			
SECTION II - REPAIR/OVERHAUL/GAIN											
14. REMOVED FROM (WHA)			15. NSN (WHA)			16. PART NUMBER (WHA)			17. SERIAL NUMBER (WHA)		
18. HOURS (WHA)			19. HISTORY RECORDER SN			20. HISTORY RECORDER/METER READING					
						20a. LCF 1	20b. LCF 2	20c. TTI	20d. OP HOURS		
21. ACFT MODEL		22. EIC	23. ACFT SN		24. MAINT LEVEL	25. DATE REMOVED		26. UIC (THIS ACFT)			
27. DATE CHECKED		28. SIGNATURE AND TELEPHONE NUMBER			29. UIC (THIS ACTION)		30. MANHOURS TO REPAIR/OVERHAUL				
31. INSPECTION AND ACTION CODES				32. REASON FOR GAIN		33. MAINT LEVEL	34. UIC (SHIPPED TO)		35. ACTUAL FAILURE CODE		
IA1 SERV			(E) REPAIR	(R) RESULT							
		(D) REMFB	(F) OVERHAUL								
REMARKS											

DA FORM 2410, JAN 92

REPAIR/OVERHAUL/GAIN COPY 2  
USAPPC V1.00

Figure 1. DA FORM 2410 Component Removal and Repair/Overhaul Record

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DA ?????	1. SUPPORT AGENCY (DODAAC)		2. DATE		
	3. ORGANIZATION (DODAAC)		4. <input type="checkbox"/> WARRANTY <input type="checkbox"/> EIR EXHIBIT <input type="checkbox"/> EXCHANGE		
EXCHANGE TAG	5. NSN		6. NOUN NOMENCLATURE		
	7. PD	8. PD AUTHENTICATION			
	END ITEM IDENTIFICATION	9. END ITEM NOUN NOMENCLATURE			
	10. MODEL		11. SERIAL NUMBER		
12. DEFICIENCY OR SYMPTOM					
13. DATE ACCEPTED		14. SIGNATURE		15. NWCS	
16. JON			17. INITIALS		
18. DATE PREPARED			19. INITIALS		

COPY 1  
DA FORM 2402  
DEC 94

Completion instructions by block number and title.

(1) SUPPORT AGENCY (DODAAC) – Enter the DODAAC of the support activity that will exchange the item for you. When this form is used for other than exchanges, use the DODAAC or UIC.

(2) DATE – Enter the Julian date was prepared for exchange.

(3) ORGANIZATION (DODAAC) – Enter the DODAAC of the unit or organization wanting to exchange the unit. When this form is used for other exchanges, use the DODAAC or UIC.

(4) EIR EXHIBIT/EXCHANGE – Mark the block to show an exchange or EIR exhibit. When used for warranty claims, put a “W” in the open space to the right of EIR EXHIBIT.

(5) NSN – Enter the NSN of the part.

(6) NOUN NOMENCLATURE – Put the noun abbreviation of the item to be exchanged.

(7) PD – Enter the priority designator (PD) that applies to the action. This unit or organization listed in block 3 normally assigns the PD. When the exchange supports a customer maintenance request, use the PD of the maintenance request.

(8) PD Authorization –  
a. The commander or the designated representative signs when a PD of 01 through 10 is in block 7.

b. Enter job order number when a PD of 01 through 10 is from a maintenance request.

(9) END ITEM NOMENCLATURE – Enter the noun abbreviation of the end item for the part or component in Block 5.

(10) MODEL – Enter the model number of the end item.

(11) SERIAL NO. – Enter the serial number of the end item.

(12) DEFICIENCY OR SYMPTOM – Briefly describe the problem.

(13) DATE ACCEPTED – When the form is used as a receipt, the exchange activity will enter the Julian date.

(14) SIGNATURE – The person who receives the unit for exchange signs.

(15) NWCS – Prints the word “yes” for an NMCS condition.

(16) JON – The facility that will repair the item numbers the job order number.

(17) INITIALS – The person receiving the item for repair initials in this block.

(18) DATE REPAIRED – The person doing the work enters the date the work was finished.

(19) INITIALS – The person doing the work initials in this block.

MAINTENANCE REQUEST										FORM NO.	NO OF PAGES	ACQUISITION SYMBOL SYMBOL CODES (SEE ITEM 1)	
<p>For use of the form, see DA Form 2407, the program cover &amp; labels.</p> <p align="center"><b>SECTION I - EQUIPMENT DATA</b></p>													
SECTION NUMBER Insert Central No. or use prenumbered data as appropriate		WORK ORDER NUMBER		WOSNO		OAS NO		PO AUTHORIZATION					
<input type="checkbox"/> WORK REQUEST <input type="checkbox"/> CLAIM		10. ORGANIZATION			11. LOCATION			12. UNIT IDENT CODE					
1. SERIAL NO. defective unit number		3. ISSUE ADMINISTRATIVE of defective unit/system			4. UNIT NO.		5. MODEL OR DEFECTIVE NATIONAL STOCK NUMBER model/type/eq 13 digits						
7. MAINTENANCE ACTIVITY		8. LEVEL		9. WILLIAMSON CODE		10. ITEM		11. LINE		12. PARTIAL ITEM			
13. FAILURE REVERSED (Include date and time of repair) <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> PART <input type="checkbox"/> REPAIR <input type="checkbox"/> OTHER													
14. FAILURE REVERSED OR STOPPED ON THE BASIS OF COMPLETE CHECKOUT AND DIAGNOSIS (Indicate in comments to do not provide reasons) <p align="center"><b>"WARRANTY CLAIM ACTION"</b></p> (Information in items 2 through 13 above, refer to the weapon system from which the defective unit/sub-system was removed. (Example, helicopter type, tank type, ammo system, etc.))													
15. REMARKS (Name and telephone number of originator/CLERK or RSN address)													
<p align="center"><b>SECTION II - WORK ACCOMPLISHED</b></p>													
16. ORIGIN ORGANIZATION/ACTIVITY				17. UNIT IDENT CODE		18. TYPE ORGANIZATION/ACTIVITY AC- COMPLETING WORK ORDER (See 13 of 23)				19. AMB ACCOUNT CODE			
20. LOCATION				<input type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> YES <input type="checkbox"/> NO				<input type="checkbox"/> CONTRACTOR			
21. FAILURE CODE		22. EQUIPMENT/PART SERIAL, ETC. OR UNIT NO. a. NS CODE    b. REF. MANUFACTURER'S CODE		23. WORKING TIME (in hours)		24. NATIONAL STOCK NUMBER		25. PART NO.		26. QUANTITY		27. PARTS COST	
PART NAME						28. VTY							
Mfg. Manufacturer's name & TSO						Mfg part no.							
Serial No: (of defective unit/eq)						Contract no. (from data plate)							
Operating time: (since installation)						Date mfg: (if known)							
Date of failure: (adjunctal info)													
Date installed (placed in service)						Date removed: (taken out of service)							
Failure detected during (operation, inspection, training, etc.)						Warranty expiration date: (from warranty stamp)							
Description of failure: (Describe failure symptoms/indications as clearly as possible)													
Cause of failure: (If known - fire, wear, etc.)													
Return to: (complete only if defective unit has been evacuated)													
29. TOTAL WORKING TIME				30. TOTAL MATERIALS COST				31. TOTAL PARTS COST					
32. DATA TRANSMISSION <input type="checkbox"/> YES <input type="checkbox"/> NO													
33. PREPARED BY		34. RECEIVED BY		35. CHECKED BY		36. APPROVED BY		37. RECEIVED BY		38. INSPECTION SIGNATURE			
39. DATE		40. DATE		41. DATE		42. DATE		43. DATE		44. DATE			

Figure 2. Sample DA Form 2407 (Maintenance Request)



By Order of the Secretary of the Army:

Official:



JOYCE E. MORROW

*Administrative Assistant to the  
Secretary of the Army*

0606604

PETER J. SCHOOMAKER  
*General, United States Army  
Chief of Staff*

Distribution:

To be distributed in accordance with the initial distribution number (IDN) 344847,  
requirements for TB 11-5841-305-23.





PIN: 083009-000