

DOCUMENT SUMMARY LIST

Item: DISPENSER ASSEMBLY
NSN: 5998-01-065-9028
Control Number/PRON: P49SGB02

Identifies all first tier documents (cited in SOW) (applicable DIDs). Also included are all referenced documents (2nd, (includes DID block 10 references), 3rd and lower tier) which have been tailored.

DOCUMENT CATEGORY:

CATEGORY 0 - Unless otherwise specified in the solicitation, contract, or contract modifications, all documents are for guidance and information only.

CATEGORY 1 - The requirements contained in the directly cited document are contractually applicable to the extent specified. All referenced documents are for guidance and information only.

CATEGORY 2 - The requirements contained in the directly cited document and the reference documents identified in the directly cited document are contractually applicable to the extent specified. All subsequently referenced documents are for guidance and information only.

CATEGORY 3 - Unless otherwise specified in the solicitation, contract or contract modification, all requirements contained in the directly cited document and all reference and subsequently referenced documents are contractually applicable to the extent specified.

Document Number (Contract Reference) Applicable Tailoring	Document Title	Document Date/ Document Category
1a. MIL-STD-2549 Table DIP 4-1	Configuration Management Data Interface	30 Jun 97 Cat 2
1b. DI-CMAN-81554 (seq A001)	Configuration Change Control Data Information Packet	30 Jun 97 Cat 2
2. ANSI/ISO/ASQC Q9002 or equivalent	Model for Quality Assurance in Production, Installation & Servicing	18 Jul 94

INSTRUCTIONS FOR COMPLETING DD FORM 1423

(See DoD 5010.12-M for detailed instructions)

FOR GOVERNMENT PERSONNEL

- Item A.** Self-explanatory.
- Item B.** Self-explanatory.
- Item C.** Mark (X) appropriate category: TDP - Technical Data Package; TM - Technical Manual; Other - other category of data, such as AProvisioning, AConfiguration Management, etc.
- Item D.** Enter name of system/item being acquired that data will support.
- Item E.** Self-explanatory (to be filled in after contract award).
- Item F.** Self-explanatory (to be filled in after contract award).
- Item G.** Signature of preparer of CDRL.
- Item H.** Date CDRL was prepared.
- Item I.** Signature of CDRL approval authority.
- Item J.** Date CDRL was approved.
- Item 1.** See DoD FAR Supplement Subpart 4.71 for proper numbering.
- Item 2.** Enter title as it appears on data acquisition document cited in Item 4.
- Item 3.** Enter subtitle of data item for further definition of data item (optional entry).
- Item 4.** Enter Data Item Description (DID) number, military specification number, or military standard number listed in DoD 5010.12-L (AMSDL), or one-time DID number, that defines data content and format requirements.
- Item 5.** Enter reference to tasking in contract that generates requirement for the data item (e.g., Statement of Work paragraph number).
- Item 6.** Enter technical office responsible for ensuring adequacy of the data item.
- Item 7.** Specify requirement for inspection/acceptance of the data item by the Government.
- Item 8.** Specify requirement for approval of a draft before preparation of the final data item.
- Item 9.** For technical data, specify requirement for contractor to mark the appropriate distribution statement on the data (ref. DoD 5230.r(24)).
- Item 10.** Specify number of times data items are to be delivered.
- Item 11.** Specify as-of date of data item, when applicable.
- Item 12.** Specify when first submittal is required.
- Item 13.** Specify when subsequent submittals are required, when applicable.
- Item 14.** Enter addressees and number of draft/final copies to be delivered to each addressee. Explain reproducible copies in Item 16.
- Item 15.** Enter total number of draft/final copies to be delivered.
- Item 16.** Use for additional/clarifying information for Items 1 through 15. Examples are: Tailoring of documents cited in Item 4; Clarification of submittal dates in Items 12 and 13; Explanation of reproducible copies in

Item 14; Desired medium for delivery of the data item.

DD Form 1423 Reverse, JUN 90

FOR THE CONTRACTOR

Item 17. Specify appropriate price group from one of the following groups of effort in developing estimated prices for each data item listed on the DD Form 1423.

a. Group I. Definition - Data which is not otherwise essential to the contractor's performance of the primary contracted effort (production, development, testing and administration) but which is required by DD Form 1423.

Estimated Price - Costs to be included under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administration and other expenses related to reproducing and delivering such data items to the Government.

b. Group II. Definition - Data which is essential to the performance of the primary contracted effort but the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, or quality of the data item.

Estimated Price - Costs to be included under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirements, and the administrative and other expenses related to reproducing and delivering such data item to the Government.

c. Group III. Definition - Data which the contractor must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, and quality of the data item.

Estimated Price - Costs to be included under Group III are the administrative and other expenses related to reproducing and delivering such data item to the Government.

d. Group IV. Definition - Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal.

Estimated Price - Group IV items should normally be shown on the DD Form 1423 as no cost.

Item 18. For each data item, enter an amount equal to that portion of the total price which is estimated to be attributable to the production or development for the Government of that item of data. These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply the data, over and above those costs which would otherwise be incurred in performance of the contract if no data were required. These estimated data prices shall not include any amount for rights in data. The Government's right to use the data shall be governed by the pertinent provisions of the contract.

GUIDANCE ON DOCUMENTATION OF CONTRACT REQUIREMENTS LIST (CDRL)

The following information is furnished to provide guidance with respect to the abbreviations and codes utilized in various blocks of DD Form 1423, Contract Data Requirements List.

Block 1. Sequence Number. This number is specified by DOD components in accordance with FAR Supplement Subpart 4.71.

Block 2. Title of Description of Data. This represents the title or brief description of the data. This title should be identical to the Data Item Description (DID) title with Block 3 being used for further identification, if required.

Block 3. Subtitle of Data. If the title requires further identification, a subtitle is entered.

Block 4. Authority, Data Item Number. Data item number of the DID which provides the data preparation instructions.

Block 5. Contract Reference. The specific paragraph number of the contract procurement request, system specification, or other applicable document which identifies the effort associated with the data item authorized by Block 4 above.

Block 6. Technical Office. The office that is responsible for assuring the adequacy of the data item unless this responsibility is delegated elsewhere in the contract or in Block 7 on the DD Form 1423.

Block 7. DD Form 250 Requirement. This block designates the location (contractor's facility or destination) for performance of Government inspection and acceptance. The applicable codes for inspection and acceptance are cited below. The Government activity to perform the destination acceptance task is entered in Block 14 as the first addressee.

Code	Inspection	Acceptance
SS	*Source(DD Form 250)	*Source(DD Form 250)
DD	Destination(DD Form 250)	Destination(DD Form 250)
SD	*Source(DD Form 250)	Destination(DD Form 250)
DS	Destination(DD Form 250)	*Source(DD Form 250)
LT	Letter of Transmittal only	
NO	No inspection or acceptance required	
XX	Inspection/acceptance requirements specified elsewhere in the contract.	

*Source indicates contractor's facility,

Block 8. Approval Code. Items of critical data requiring specified advanced written approval, such as test plans, are identified by an "A" in this field. This data requires submission of a preliminary draft prior to publication of the final document. When advanced approval is not required, this field is blank.

Block 9. Distribution Statement Required. The code letter corresponding to the distribution statement to be marked on the technical data item by the contractor, in accordance with DoD Directive 5230.24 and the guidance in DoD 5010.12-M.

Block 10. Frequency. The codes that appear in this block are cited below:

ANNLY	Annually	ASGEN	As generated*
ASREQ	As required*	BI-MO	Every 2 months
BI-WE	Every 2 weeks	DAILY	Daily
DFDEL	Deferred Delivery	MTHLY	Monthly
ONE/P	One Preliminary	ONE/R	One time with revisions
QRTLY	Quarterly	R/ASR	Revision as required*
SEMIA	Every 6 months	WEKLY	Weekly
XTIME** Number of time to be submitted (1TIME, 2TIMES, etc.)			

*Use of these codes requires further explanation in block 16 to provide the contractor with guidance necessary to accurately price the deliverable data item.

**A number must be inserted in place of the "X".

Block 11. As of Date (AOD). When data is submitted only once, this block indicates the number of days the data is to be submitted prior to the end of the reporting period; e.g., "15" would place the AOD for this report as 15 days before the end of each month, quarter, or year depending on the frequency established in Block 10; "0" places the AOD at the end of the month, quarter, or year. Further guidance is shown in Block 13 or 16 as required.

Block 12. Date of First Submission. This block indicates the initial data submission date (Year/Month/Day). When the contract start date has not been established, this block indicates the number of days after the contract start date that the data is due; e.g., 30 days after contract (DAC). Further information, if required is contained in Block 13. "DFDEL" indicates deferred delivery.

Block 13. Date of Subsequent Submission/Event Identification. When data is submitted more than once, the date(s) of subsequent submission(s) is indicated in this block. Example: "Not later than (NLT) 15 days before start of production"; "45 days before first article", etc.

Block 14. Distribution and Addressees. Addressees and number of copies (draft/regular/reproducible) to be forwarded to each addressee as cited in this block. Addressees are indicated by office symbols (i.e., AMSIO-XYZ). A list explaining these symbols and their addressees is attached to the form. When reproducible copies are required, the type of copies required will be cited in this block or Block 16.

NOTE: Unless otherwise cited in Block 10 of DD Form 1664, entries in Blocks 3 through 9 on DD Form 1664, Data Item Descriptions, are for information purposes only and are not contractually binding.

NOTE: It is required that data items be delivered using electronic media. Where possible electronic transmission (e-mail) is the most preferred method. Refer to the Contract Data Requirements List (CDRL), DD Form 1423 for more specific information (i.e., e-mail addresses, etc.)

For narrative kinds of reports, submission of a 3 1/2 inch disk in Rich Text Format (RTF), Microsoft Word or by e-mail is acceptable.

For spreadsheets or database kinds of reports, the acceptable software packages would be Microsoft Office products, i.e., Access or Excel. If these packages are not available, the information could be forwarded using a word processing kind of document saved in a Rich Text Format (RTF).

CONTRACT SECTION C WORKSHEET

DATE 01/14/00

PRON P49SGB01 AMC 1 AMSC G ATC _____

TDPL 9311431 TDPL DATE 05/17/99

NSN 1095-01-057-0027 NOMENCLATURE Electronics Module

ENGINEERING EXCEPTIONS: The following engineering exceptions apply to this procurement action(s):

- DELETE ALL PACKAGING DRAWINGS AND ASSOCIATED DOCUMENTS ON TDPL SHEETS 8, 9, & 10.
- DELETE ALL OUTSTANDING APPROVED ENGINEERING CHANGES ON TDPL SHEET 22.

DOCUMENT	DELETE	ADD OR REPLACE WITH
SPI 9311431		BASE (1 SHEET, HARD COPY)
QAP 9354498		PAGE 5, CHANGE FROM P/N 9354993 TO P/N 9354498
MIL-B-7883	REV C	AWS C3.4, AWS C3.5, AWS C3.6 & AWS C3.7
MIL-E-63124	AMD 2 & NOTICE 1	UPDATED AMD 2 & NOTICE 1 (4 SHEETS, HARD COPY)
MIL-STD-105	REV E	MIL-STD-1916, VL IV FOR MAJOR CHARACTERISTICS & VL II FOR MINOR CHARACTERISTICS
MIL-STD-810	REV E & NOTICE 1	REV C
MIL-STD-2000	REV A	IPC J-STD-001
MS17984	REV F	NASM17984
MS18064	REV A	NASM18064, BASE
MS20426	REV L	NASM20426, BASE
MS20470	REV H	NASM20470, BASE
MS21075	REV H	NASM21075, BASE
MS21209	REV E	NASM21209, BASE
MS21266	REV E	NASM21266, BASE
MS3212	REV B	NASM3212, BASE
MS3368	REV F	SAE-AS33681, BASE
NAS1756	BASE	REV 2
QQ-A-200	REV E & NOTICE 4	SAE AMS-QQ-A-200, ASTM B221 & ASTM B308
QQ-A-200/3	REV F & NOTICE 4	SAE AMS-QQ-A-200, ASTM B221 & ASTM B308
QQ-A-200/8	REV F & NOTICE 4	SAE AMS-QQ-A-200, ASTM B221 & ASTM B308
QQ-S-571	REV F	IPC J-STD-004, IPC J-STD-005 & IPC J-STD-006

MYLARS REQUIRED (Check one): Yes No

CERTIFICATION SIGNATURE(S) / CONCURRENCE

ENG				
<u>DONALD R. SEERS</u>	<u><i>Donald R Seers</i></u>	<u>01/14/00</u>	<u>AMSTA-AR-FSA-R</u>	<u>793-5342</u>
Type/Print Name	Signature	Date	Office Symbol	DSN Telephone

LCSE				
_____	_____	_____	_____	_____
Type/Print Name	Signature	Date	Office Symbol	DSN Telephone

PKG				
_____	_____	_____	_____	_____
Type/Print Name	Signature	Date	Office Symbol	DSN Telephone

PAD				
_____	_____	_____	_____	_____
Type/Print Name	Signature	Date	Office Symbol	DSN Telephone

SPECIAL PACKAGING INSTRUCTION				Form Approved OMB No. 0704-0188	
1. PART OR DRAWING NO. NOMENCLATURE 9311431 ELECTRONIC MODULE			2. CODE IDENT 19200		3. SPI NO. (AM) P9311431
NATIONAL STOCK NO. 1095-01-057-0027			5. DATE		4. REVISION - /
7. QUP/UNIT OF ISSUE 1/EA	8. ICQ	9. UNIT PACK WT (lb) (0.0) 4.75	8. UNIT PACK CU (CU.FT) 0.174		9. UNIT PACK SIZE (INCHES) 09.9 X 7.8 X 3.9

	18. STEP	19. REQD	20. DESCRIPTION
10. MILITARY PRESERVATION MIL-STD -2073-1 METHOD 41 (SEE NOTE D)	1	AR	CAPS, NAS-847, SEE NOTE (E)
	2	1	BAG, MIL-B-117, TY-1, CL E
11. CLEANING *	3	1	CONTAINER, ASTM D 5118, GR WR
	4		CLOSURE IAW ASTM D 1974
12. DRYING *			
13. PACKING			
a. LEVEL A MIL-STD-2073-1 TABLE C. II.			
b. LEVEL B MIL-STD-2073-1 TABLE C. II.			
16. MARKING MIL-STD-129			

17. NOTES/DRAWING

(A) MATERIALS WILL BE MINIMUM SIZE IN ACCORDANCE WITH MIL-STD-2073-1.

(B) TOLERANCES SHALL BE IN ACCORDANCE WITH MATERIAL SPECIFICATIONS. QUALITY PERFORMANCE AND TESTING REQUIREMENTS SHALL BE IN CONFORMANCE WITH MIL-STD-2073-1, OR AS OTHERWISE SPECIFIED.

(B) WEIGHTS AND SIZES ARE ESTIMATED AND MAY VARY SLIGHTLY.

(C) INTERMEDIATE PACKING AND PACKING WILL BE IN ACCORDANCE WITH SPECIFICATION MIL-STD-2073-1 OR AS OTHERWISE STATED HEREON.

* UNLESS OTHERWISE SPECIFIED, CLEANING AND DRYING SHALL BE IN ACCORDANCE WITH PARAGRAPH 5.2.1 OF MIL-STD-2073-1.

(D) METHOD 41 WITH SUPPLEMENTAL UNIT CONTAINER

(E) PLACE CAPS OVER CONNECTORS

NOTICE OF INACTIVATION
FOR NEW DESIGN

INCH POUND

MIL-E-63124B (AR)
NOTICE 1
11 December 1995

MILITARY SPECIFICATION

ELECTRONICS MODULE ASSEMBLY

This notice should be filed in front of MIL-E-63124B (AR) dated 14 January 1985

MIL-E-63124B (AR) dated 14 January 1985, with Amendment 2, dated 4 January 1994 is inactive for new design and is no longer used, except for replacement purposes.

Preparing Activity:
Army - AR

* All environmental testing shall be conducted
per MIL-STD-810C not MIL-STD-810E

MSC N/A

FSC 1095

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

INCH-POUND

MIL-E-63124B(AR)
AMENDMENT 2
04 January 1994
SUPERSEDING
AMENDMENT 1
22 October 1990

MILITARY SPECIFICATION
ELECTRONIC MODULE ASSEMBLY

This amendment forms a part of Military Specification MIL-D-63124B(AR), dated 14 January 1985, and is approved for use by the US Army Armament, Munitions and Chemical Command, and is available for use by all Department and Agencies of the Department of Defense.

PAGE 1

~~* 2.1.1 Standard, Military: Delete "MIL-STD-810C" and substitute "MIL-STD-810".~~

PAGE 2

2.1.2: Add the following drawing under INSPECTION EQUIPMENT DRAWINGS:

"12589959 - BALLAST, FLARE"

PAGE 4

~~* 3.4.1 Helicopter vibration.~~

~~Line 3: Delete "MIL-STD-810C, Test Method 514.2, Procedure IIC" and substitute "MIL-STD-810, Method 514.4, Category 7C".~~

~~Line 3: Delete "... Procedure IIC. The electronics ... (First article only)" and substitute "... Procedure IIC when tested as specified in 4.5.4 (First article only)".~~

MIL-E-63124B(AR)
AMENDMENT 2

- * ~~3.4.2 Transportation vibration, line 3: Delete "MIL-STD-810C" and substitute "MIL-STD-810, Method 514.4, Basic Transportation, Category 7C".~~
- * ~~3.4.3 Humidity, line 3: Delete "MIL-STD-810C" and substitute "MIL-STD-810, Method 507.3, Procedure III".~~
- * ~~3.4.4 High temperature, line 2: Delete "MIL-STD-810C, Test Method 501.1" and substitute "MIL-STD-810, Test Method 501.3, Procedure II, Induced".~~
- * ~~3.4.5 Low temperature, line 2: Delete "MIL-STD-810C, Test Method 502.1" and substitute "MIL-STD-810, Test Method 502.3, Procedure II, Severe Cold".~~
- * 3.4.6 Seal integrity, Delete in its entirety and substitute the following:

3.4.6 Seal integrity. The electronics module assembly, Dwg. 9311431, shall show no evidence of leakage when tested as specified in with 4.5.8".

PAGE 10

- * TABLE I. First article inspection:

Programmer Assembly: Delete in its entirety.

Electronics Module Assembly (Dwg. 9311431): Add the following after Humidity Test, "Seal integrity 2 3.4.6 4.5.8".

PAGE 12

4.4.2.1, Housing Assembly, Electronics: Add alternate drawing 12598357 with drawing 9311565

PAGE 24

- * 4.4.2.13 Programmer module, Major 103: Delete in its entirety.
- * 4.4.2.14 Module electronics, Major 106: Add the following "Seal integrity .40% 3.4.6 4.5.8".

PAGE 31

- * ~~4.5.2 High temperature, line 2: Delete "MIL-STD-810C, Test Method 501.1" and substitute "MIL-STD-810, Test Method 501.3, Procedure II, Induced".~~

MIL-E-63124B(AR)
AMENDMENT 2

* ~~4.5.3 Low temperature, line 2: Delete "MIL-STD-810C, Test Method 502.1" and substitute "MIL-STD-810, Test Method 502.3, Procedure II, Severe Cold".~~

4.5.4 Helicopter vibration.

* ~~Line 2: Delete "MIL-STD-810C, Test Method 514.2, Procedure IIC, ..." and substitute "MIL-STD-810, Method 514.4, Category 7C, ..."~~

Line 5: Delete "...in Figure 1. The payload ... for this test" and substitute "... in Figure 2. The payload module shall be loaded with thirty (30) ballast flares, dwg. 12589959, (Preferred) or with thirty (30) inert flares for this test".

* ~~4.5.5 Transportation vibration, line 2: Delete "MIL-STD-810C 5 and 6 HZ)" and substitute "MIL-STD-810, Method 514.4, Basic Transportation, Category I".~~

PAGE 32

* ~~4.5.6 Humidity, line 2: Delete "MIL-STD-810C ... (10 days)" and substitute "MIL-STD-810, Method 507.3, Procedure III".~~

* 4.5.8 Seal integrity:

First sentence: Delete "...programmer module (Dwg. 9311429) ..." and substitute "...electronics module assembly (Dwg. 9311431) ...".

Last sentence: Delete "...program module ..." and substitute "...electronics module assembly ...".

The margins of this amendment are marked with an asterisk or vertical lines to indicate where changes (additions, modifications, corrections, deletions) from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

Custodian:
Army-AR

Preparing activity:
Army-AR

(Project 1095-A269)

CONTRACT SECTION C WORKSHEET

DATE 01/14/00

PRON P38SGAX3 AMC 1 AMSC G ATC _____

TDPL 9272533 TDPL DATE 01/30/98

NSN 1095-01-057-4592 NOMENCLATURE DISPENSER CONTROL PANEL

ENGINEERING EXCEPTIONS: The following engineering exceptions apply to this procurement action(s):

- DELETE ALL PACKAGING DRAWINGS AND ASSOCIATED DOCUMENTS ON TDPL SHEETS 7, 8, & 9.
- DELETE ALL OUTSTANDING APPROVED ENGINEERING CHANGES ON TDPL SHEET 16.

DOCUMENT	DELETE	ADD OR REPLACE WITH
SPI 9272533		REV C (1 SHEET, HARD COPY)
9280371	REV D	UPDATED REV E (5 SHEETS, HARD COPY)
9321211	REV B	REV C (2 SHEETS, HARD COPY)
MIL-C-48890	AMD 3 & NOTICE 1	UPDATED AMD 3 & NOTICE 1 (6 SHEETS, HARD COPY)
MIL-STD-810	REV E & NOTICE 1	REV C
MIL-STD-2000	REV A	IPC J-STD-001
MS20426	REV L	NASM20426, BASE
MS21044	REV H	NASM21044, BASE
MS21093	REV B	NASM21093, BASE
MS25237	REV D	MIL-L-6363/8, REV A
QQ-S-571	REV F	IPC J-STD-004, IPC J-STD-005 & IPC J-STD-006

MYLARS REQUIRED (Check one): Yes No

CERTIFICATION SIGNATURE(S) / CONCURRENCE

ENG
DONALD R. SEERS *Donald R Seers* 01/14/00 AMSTA-AR-FSA-R 793-5342
 Type/Print Name Signature Date Office Symbol DSN Telephone

LCSE

 Type/Print Name Signature Date Office Symbol DSN Telephone

PKG

 Type/Print Name Signature Date Office Symbol DSN Telephone

PAD

 Type/Print Name Signature Date Office Symbol DSN Telephone

SPECIAL PACKAGING INSTRUCTION

Form Approved
OMB No. 0704-0188

1. PART OR DRAWING NO. NOMENCLATURE DISPENSER CONTROL PANEL			2. CODE IDENT 19200		3. SPI NO. (AM) P9272533	
4. NATIONAL STOCK NO. 1095-01-057-4592			5. DATE		5. REVISION C/	
7. QUP/UNIT OF ISSUE 1/EA	8. ICQ	9. UNIT PACK WT (lb) (0.0) 2.0	8. UNIT PACK CU (CU.FT) 0.092		9. UNIT PACK SIZE (INCHES) 6.5 X 6.0 X 4.0	
			18. STEP	19. REQD	20. DESCRIPTION	
10. MILITARY PRESERVATION MIL-STD -2073-1 METHOD 41 (SEE NOTE D)			1	AR	CAPS, NAS-847, SEE NOTE (E)	
			2	1	BAG, MIL-B-117, TY-1, CL E	
11. CLEANING *			3	1	CONTAINER, ASTM D 5118, GR WR	
			4		CLOSURE IAW ASTM D 1974	
12. DRYING *						
13. PACKING						
a. LEVEL A MIL-STD-2073-1 TABLE C. II.						
b. LEVEL B MIL-STD-2073-1 TABLE C. II.						
16. MARKING MIL-STD-129						

17. NOTES/DRAWING

(A) MATERIALS WILL BE MINIMUM SIZE IN ACCORDANCE WITH MIL-STD-2073-1.

(B) TOLERANCES SHALL BE IN ACCORDANCE WITH MATERIAL SPECIFICATIONS. QUALITY PERFORMANCE AND TESTING REQUIREMENTS SHALL BE IN CONFORMANCE WITH MIL-STD-2073-1, OR AS OTHERWISE SPECIFIED.

(B) WEIGHTS AND SIZES ARE ESTIMATED AND MAY VARY SLIGHTLY.

(C) INTERMEDIATE PACKING AND PACKING WILL BE IN ACCORDANCE WITH SPECIFICATION MIL-STD-2073-1 OR AS OTHERWISE STATED HEREON.

* UNLESS OTHERWISE SPECIFIED, CLEANING AND DRYING SHALL BE IN ACCORDANCE WITH PARAGRAPH 5.2.1 OF MIL-STD-2073-1.

(D) METHOD 41 WITH SUPPLEMENTAL UNIT CONTAINER

(E) PLACE CAPS OVER CONNECTORS

DESCRIPTION	DATE	APPROVAL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
PRODUCTION RELEASE ERR A4Q2092	85-01-14		-	-	-	-	-																				
NOR M7F3000/871030	881221	<i>ORR-12 cm</i>	A	-	-	A	-																				
NOR GIF3007/911007	911112	<i>GMS SR</i>	B	-	B	A	-																				
NOR G5F2005/950724	950828	DR	C	-	C	A	-																				
NOR G5F2006/960117	960213	JB	D			D																					
NOR L8F3010/980630	980819	FET	E	-	E	D	-																				

DESCRIPTION	DATE	APPROVAL	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50

DISTRIBUTION STATEMENT A
APPROVED FOR PUBLIC RELEASE. DISTRIBUTION IS UNLIMITED.

DISPENSER CONTROL PANEL	ORIGINAL DATE	US ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER	
	1-14-85	DOVER, NEW JERSEY 07801	
	DRAFTSMAN	REVISION STATUS SHEET FOR	
	CHECKER	TEST SET-UP FOR FUNTIONAL TEST (DISPENSER CONTROL PANEL)	
	ENGR: <i>John Stastek</i>	SIZE	CAGE CODE
	<i>Robert C. Strubens</i>	A	19200
NEXT ASSY	USED ON	REVISION LEVEL	9280371
APPLICATION		E	SHEET 1 OF 5

FUNCTIONAL TEST SYSTEM FOR DISPENSER CONTROL PANEL

DRAWING 9280371

1. Purpose. These instructions are provided as guidance in the design, fabrication, and operation of a system to perform functional testing of the M130 Dispenser Control Panel.

2. General Requirements. The functional testing system shall consist of the following:

A. Equipment capable of performing functional testing of the M130 Dispenser Control Panel as stated herein.

B. Technical data on the functional testing equipment design.

C. Specifications for commercial items within the functional testing equipment.

D. Calibration and set up procedures for the functional testing equipment.

E. Functional testing equipment operating instructions.

F. Test plans for performing functional and verification testing of the M130 Dispenser Control Panel to the item acceptance criteria.

2.1 Government Approval. The contractor shall submit the data, B thru F above, to AMSMC-QAT-I(D) for approval prior to use of the functional testing.

3. Equipment Requirements. The functional testing system equipment shall consist of, at a minimum, the following equipment.

3.1 Pulse Generator. The system shall include a pulse generator or similar equipment capable of providing electric pulses with pulse rise times and duration as shown in Figure 1.

3.2 Multimeter. The system shall include a multimeter or a similar device which shall measure electrical resistance from 0.0 to 1.0 ohms with an accuracy of .01 ohms and shall measure voltage from 0 to 30 VDC with an accuracy of 0.1 volt.

3.3 DC Power Supply. The system shall include a DC power supply or similar equipment capable of supplying 22.5 to 30 VDC regulated with a capacity of 7 Amps and an AC ripple of less than 50 MV peak-to-peak.

4. Performance Requirements. The functional testing system shall be capable of performing the following test procedure on the Dispenser Control Panel (DCP).

4.1 Standard Test Voltage (STV) - Maximum. Adjust standard test voltage to supply $+30 \pm 0.5$ VDC.

TITLE TEST SET-UP FOR FUNCTIONAL TEST (DISPENSER CONTROL PANEL)	SIZE	CONTROL NO. FSCM	9280371
	A	19200	
		REVISION LEVEL	SHEET 2

4.2 DCP Safe Test.

A. Set the DCP switches as follows.

1. Set "Man/Pgrm" switch S1 to "Man" position
2. Set "Ripple Fire" switch S2 to "Off"
3. Set "Safe/Arm" switch to "Safe" position

B. Apply STV to pin H of J1 connector (pin R of J1 connector shall be grounded) 0.0 ± 0.1 VDC shall be measured on J1 connector pins: A, B, C, D, E, F, G, J, K, L, M, N, P, S, T, U, V.

C. Remove STV from pin H. 0.5 ohms maximum shall be measured.

J1 - K to J1 - L
 J1 - J to J1 - N
 J1 - A to J1 - D

D. Set "Man/Pgrm" switch S1 to "Pgrm" position. 0.5 ohms maximum shall be measured from J1-D to J1-B.

If these voltage and resistance readings are not obtained, the DCP shall be rejected.

4.3 DCP Arm Test.

A. Set the DCP switches as follows.

1. Set "Man/Pgrm" switch S1 to "Man" position
2. Set "Ripple Fire" switch S2 to "Off"
3. Set "Safe/Arm" switch S3 to "Arm" position

B. Connect a 51K ohm(1/4 watt, $\pm 5\%$ TOL) resistor between pin S and R of J1 connector. Apply STV to pin H of J1 connector(pin R of J1 connector shall be grounded). 0.0 ± 0.1 VDC shall be measured on J1 connector pins A, B, D, E, F, G, J, K, L, N, V. 0.5 VDC or less shall be measured on J1 connector pin S. STV shall be measured on J1 connector pins C, M, P.

If these voltage readings are not obtained, the DCP shall be rejected.

4.4 DCP Ripple Fire Test.

A. Set the DCP switches as follows.

1. Set "Man/Pgrm" switch S1 to "Pgrm" position
2. Set "Ripple Fire" switch to S2 to "On"
3. Set "Safe/Arm" switch S3 to "Arm" position

DISTRIBUTION STATEMENT A
APPROVED FOR PUBLIC RELEASE. DISTRIBUTION IS UNLIMITED.

TITLE TEST SET-UP FOR FUNTIONAL TEST (DISPENSER CONTROL PANEL)	SIZE	CODE IDENT NO. FSCM	9280371
	A	19200	
		REVISION LEVEL	E SHEET 3

B. Apply STV to pin H of J1 connector (pin R of J1 connector shall be grounded). 0.0 + 0.1 VDC shall be measured on J1 connector pins A, B, D, E, F, G, J, K, L, N, V. STV shall be measured on J1 pins C, M, P, S.

C. Set "Safe/Arm" switch S3 to "Safe" position. Measure STV on J1 pin S.

If these voltage readings are not obtained, the DCP shall be rejected.

4.5 DCP Counter Functioning.

A. Set the DCP switches as follows.

1. Set "Man/Pgrm" switch S2 to "Man" position
2. Set "Ripple Fire" switch S2 to "Off"
3. Set "Safe/Arm" switch S3 to "Arm" position
4. Set Flare and Chaff counters to 30

B. Apply STV to pin H of J1 connector (pin R of J1 connector shall be grounded). Apply 30 electrical pulses per Figure 1 (using the pulse generator) to J1 connector pin U (use an electronic counter (EC) to count the number of pulses). Compare the number of counts on the EC with the flare counter on the DCP. When the EC count reaches 30, the DCP flare counter should be zero.

C. Apply 30 electrical pulses per Figure 1 (using the pulse generator) to J1 connector pin T (use an electronic counter (EC) to count the number of pulses). Compare the number of counts on the EC with the chaff counter on the DCP. When the EC count reaches 30, the DCP chaff counter should be zero.

D. Apply STV to J1 connector pin G (pin R of J1 connector shall be grounded). The edge panel light should be on.

E. Apply STV to J1 connector pin F (pin V of J1 connector shall be grounded). The Arm light should light.

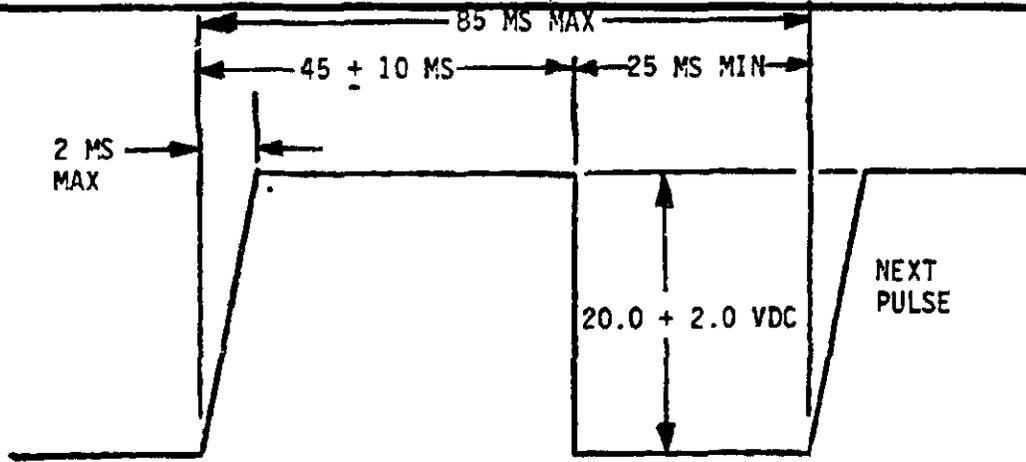
F. Apply STV to J1 connector pin H (pin V of J1 connector shall be grounded). Press the Arm light. The Arm lamp should light.

If the counters fail to count properly, or if the edge panel light or arm light fail to light at the proper times, the DCP shall be rejected.

4.6 Standard Test Voltage (STV) - Minimum. Adjust standard test voltage to supply ~~+24.5 ± 0.5~~ volts. Repeat tests in steps 4.2 thru 4.5.

+22.5 ± 0.5

TITLE TEST SET-UP FOR FUNCTIONAL TEST (DISPENSER CONTROL PANEL)	SIZE A	CAGE CODE 19200	9280371	
	REVISION LEVEL		D	SHEET 4



INPUT CHAFF OR FLARE DISPENSE PULSES

FIGURE 1

TITLE TEST SET-UP FOR FUNCTIONAL TEST (DISPENSER SYSTEM)	SIZE A	FSCM 19200	9280371
	REVISION LEVEL		SHEET 5

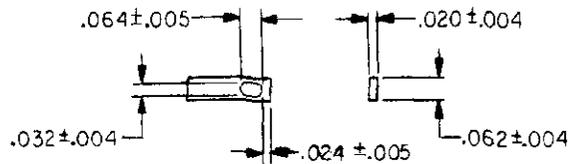
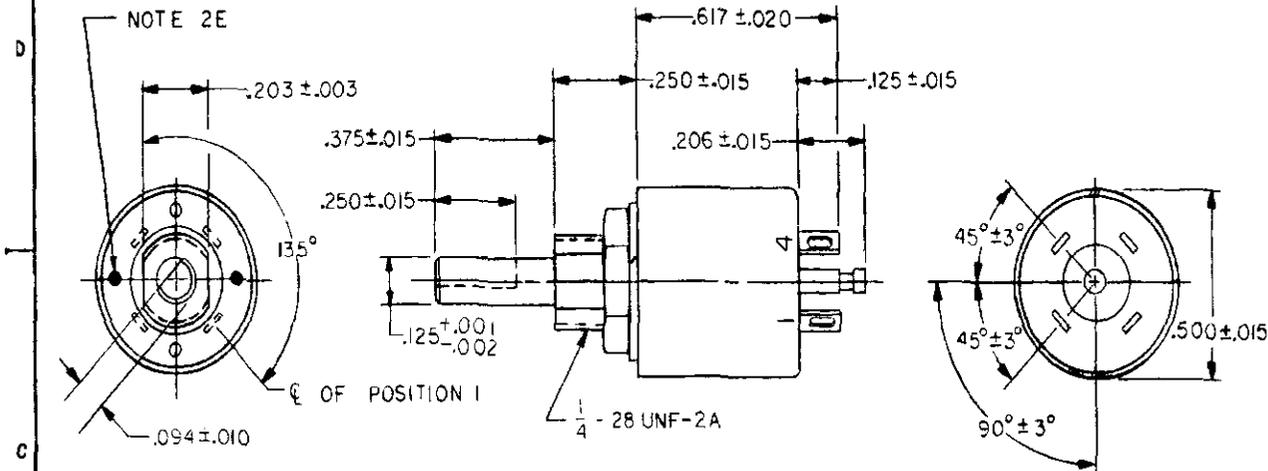
4

3

2

1

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
-	ERR 770182-1 770183-1 770185-1	REL 7704/20	
A	NOR W5D2014/B50129	860111	MR J L J
B	ERR Z9Z1194AA (ECP G7D2006 870323) (ECP G7D2007 870323)	890920	om Jink
C	NOR L8F3020 981113	981211	JB



SOLDER LUG

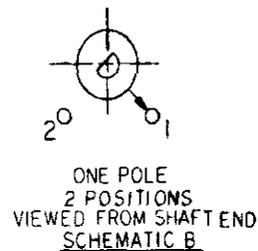
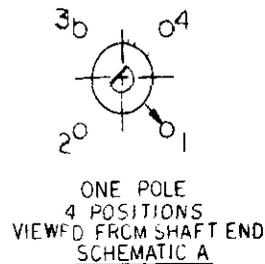


TABLE		
PART NO	9321211-1	9321211-2
VENDOR PART NO	50 AT 90-01-1-02N	50 AT 90-01-1-04N
NEXT ASSEMBLY	9321318	9326202
SCHEMATIC	SEE SCHEMATIC B	SEE SCHEMATIC A
POSITIONS	2	4
STOP STRENGTH	7.5 LB-IN MIN	N/A
MATERIAL AND FINISH FOR STOP PINS	CRES. PASSIVATED	N/A

CURRENT DESIGN ACTIVITY PAGE CODE 19200
U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PICATINNY ARSENAL, NEW JERSEY 08706-5000

C	C
SH 1	SH 2
REVISION STATUS OF SHEETS	

SPECIFICATION CONTROL DRAWING
PART NO. SEE TABLE

SEE SHEET 2 FOR NOTES

9326202		TEST SET M92		MECHANICAL PROPERTIES		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING 77-04-20		US ARMY ARMAMENT COMMAND PICATINNY ARSENAL, DOVER, NEW JERSEY 07801	
9321318	DISP CONT M130	YP		TS		TOLERANCES ON DECIMALS ±		DRAFTSMAN ATL	CHECKER DES 118	SWITCH, ROTARY	
NEXT ASSY	USED ON	ELZ		RA		FRACTIONS ±	ANGLES ±	ENGR R.M.M.	ENGR J.S.		
APPLICATION		BH		RH				SIZE C CODE IDENT NO 19203 SCALE 4/1 UNIT WT		9321211	
										SHEET 1 OF 2	

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
-	ERR 770182 - 1 770183 - 1 770185 - 1	REL 77/04/20	
A	NOR W5D2014/850129	860111	MR LUB
B	ERR Z9Z1194AA ECP 67D2007 870323	890920	sm
C	NOR L8F3020 981113	981211	JB

NOTES:-

- 1 - GENERAL RATING:-
 - A- SERIES:----- 50
 - B- STYLE:----- STANDARD SOLDER LUG TERMINALS
 - C- ANGLE OF THROW:----- 90°
 - D- DECKS:----- SINGLE
 - E- POLES:----- 1
 - F- POSITIONS:----- SEE TABLE
 - G- CONTACT TYPE:----- NON SHORTING
 - H- CONTACT RESISTANCE ----- 50 MILLIOHMS MAX
 - J- INSULATION RESISTANCE ----- 10,000 MEGOHMS MIN
 - K- VOLTAGE BREAKDOWN ----- 600 VAC MIN
 - L- CONTACT CARRY RATING ----- 6 AMPS CONTINUOUS AT 20° C MAX CONTACT TEMPERATURE RISE
 - M- STOP STRENGTH ----- SEE TABLE

- 2 - MATERIALS AND FINISHES:-
 - A- SWITCH BASE ----- MOLDED DIALLYL, SPEC MIL-M-14
 - B- DETENT ROTOR ----- MOLDED PHENOLIC, SPEC MIL-M-14
 - C- SHAFT, STOP ARM, THRUST WASHER, RETAINING RING AND DETENT BALLS ----- CRES 302
 - D- BUSHING AND MOUNTING NUT ----- BRASS, CADMIUM PLATED
 - E- STOP PINS ----- SEE TABLE
 - F- DETENT SPRING AND CONTACT SPRING ----- TINNED MUSIC WIRE
 - G- TERMINALS AND COMMON RING ----- BRASS, GOLD PLATED OVER SILVER PLATE
 - H- ROTOR CONTACT ----- BRASS, RHODIUM PLATED

- 3 - REQUIREMENTS IN ACCORDANCE WITH SPEC MIL-S-3786/20 EXCEPT FOR 90° ANGLE OF THROW.
- 4 - FOR SPARE PARTS REQUIREMENT ONLY SEE MIL-T-63279 (AR).
- 5 - IDENTIFICATION OF THE SUGGESTED SOURCES OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM.
- 6 - SUGGESTED SOURCE OF SUPPLY:-
 - GRAYHILL, INC
 - 561 HILLGROVE AVENUE
 - LA GRANGE, ILLINOIS 60525
 - VENDOR PART NO SEE TABLE
 - FSCM NO 81073
- 7 - MIL-D-63199 (AR) APPLIES FOR REPAIR AND SPARE PARTS ONLY.
- 8 - SHAFT SEAL AND FLUX SEAL IN ACCORDANCE WITH MIL-S-3786.

CURRENT DESIGN ACTIVITY CAGE CODE 19200
 U.S. ARMY
 ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
 PICATINNY ARSENAL, NEW JERSEY 08706-5000

PART NO. 9321211

9326202	TEST SET M92	MECHANICAL PROPERTIES		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	ORIGINAL DATE OF DRAWING 77-04-20		US ARMY ARMAMENT COMMAND PICATINNY ARSENAL, DOVER, NEW JERSEY 07801			
		YP			DRAFTSMAN ATC	CHECKER WES 4/20	SWITCH, ROTARY			
9321318	DISP CONT M130	TS		TOLERANCES ON DECIMALS ±		ENGR RWH			ENGR JAW	SIZE C
		ELZ		FRACTIONS ± ANGLES ±		ENGR	ENGR			
NEXT ASSY		RA		APPLICATION		Keith &		SCALE	UNIT WT.	SHEET 2
USED ON		BH								
		RH								

MIL-C-48890B NOTICE 1 ■ 9999906 2052808 168 ■

NOTICE OF INACTIVATION
FOR NEW DESIGN

INCH POUND

MIL-C-48890B(AR)
NOTICE 1
13 August 1997

MILITARY SPECIFICATION
CONTROL PANEL ASSEMBLY FOR M130 DISPENSER SYSTEM

This notice should be filed in front of MIL-C-48890B(AR) dated 14 January 1985

MIL-C-48890B(AR) dated 14 January 1985 with Amendment 2, dated 4 October 1996 is inactive for new design and no longer used except for replacement purposes.

Preparing Activity:
Army - AR

- * All Low Voltage testing shall be done at 22.5 Volts not 24.0 volts
- * All environmental testing shall be conducted per MIL-STD-810C not MIL-STD-810E.

AMSC N/A

FSC 1345

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

MIL-C-48890B (3) ■ 9999906 2072548 9T8 ■

INCH-POUND
 MIL-C-48890B(AR)
 AMENDMENT 3
 10 July 1998
 SUPERSEDING
 AMENDMENT 2
 4 October 1996

MILITARY SPECIFICATION
 CONTROL PANEL ASSEMBLY FOR
 M130 DISPENSER SYSTEM

MIL-C-48890 was inactivated after 13 August 1997 for new design.

This amendment forms a part of MIL-C-48890B(AR), dated 14 January 1985, and is approved for use by the U.S. Army Armament Research, Development and Engineering Center, and is available for use by all Departments and Agencies of the Department of Defense.

PAGE 1

2.1 Issue of documents. Add the following specification:

"MIL-L-85762 - Lighting, Aircraft, Interior, AN/ANS-6 Aviator's Night Vision Imaging System (ANVIS) Compatible"

PAGE 2

2.1.2: Delete from list of drawings:

"9321931 - Packing and Marking for Box, Exterior for Panel Dispenser Control: M130"

PAGE 3

~~3.3.1 Power up: Delete "22.5" and substitute "24.0".~~

AMSC N/A 1 of 5 FSC 1345
DISTRIBUTION STATEMENT A. Approved for public release;
 distribution is unlimited.

MIL-C-488908 (3) ■ 9999906 2072549 834 ■

MIL-C-488908(AR)
AMENDMENT 3~~3.3.2 Safe/arm: Delete "22.5" and substitute "24.0".~~~~3.3.4 Flare ripple fire: Delete "22.5" and substitute "24.0".~~

- * ~~3.4.1 Helicopter vibration. Delete "... MIL-STD-810C, Test Method 514.2, Procedure I, Part 1, Category 6 using curve C of Figure 514.5-2 and curve M of Figure 514.2-3." and substitute "... MIL-STD-810, Test Method 514.4, Category 6."~~
- * ~~3.4.2 Transportation vibration. Delete "... MIL-STD-810C, Test Method 514.2, Procedure X, using curve AW of Figure 514.2-7 (change curve to 0.8" displacement (double amplitude) between 5 and 6 Hz)". and substitute "... MIL-STD-810, Test Method 514.4, Basic Transportation, Category I."~~
- * ~~3.4.3 Shock. Delete "... MIL-STD-810C, Test Method 516.2, Procedure I, using peak value (a) and nominal duration (c) in Figure 516.2-1." and substitute "... MIL-STD-810, Test Method 516.4, Procedure I. Three sawtooth pulses shall be applied in each direction along three (3) mutually perpendicular axes for a total of eighteen (18) shocks at peak value of 20g's and a nominal duration of 11 ms."~~
- * ~~3.4.4 Low temperature. Delete paragraph in its entirety and substitute "3.4.4 Low temperature. The control panel shall perform all functions satisfactorily at -51°C for 24 hours according to MIL-STD-810, Test Method 502.3, Procedure II, Severe Cold."~~

PAGE 4

- * ~~3.4.5 High temperature. Delete "... MIL-STD-810C, Test Method 501.1 ..." and substitute "... MIL-STD-810, Test Method 501.3, Procedure II, Hot, induced for 72 hours."~~

PAGE 5

Figure 1 Count signal: Delete "20.0" and substitute "24.0".

PAGE 7

TABLE I - Panel, Edge, Lighting. Delete "Dwg. 9272532" and substitute "12597636".

MIL-C-48890B (3) ■ 9999906 2072550 556 ■

MIL-C-48890B(AR)
AMENDMENT 3

PAGE 14

4.4.2.5 Panel, Edge, Lighting. Delete "Dwg. 9272532" and substitute "12597636".

Add the following:

"105 Lighting, ANVIS Compatible (1/)

a. Luminance and illumination 0.40% 3.2 4.8.12 of MIL-L-85762

b. Chromaticity 0.40% 3.2 4.8.13 of MIL-L-85762

c. Spectral radiance 0.40 3.2 2/
or
Spectral radiance 100% 3.2 3/"

Add note:

1/ Sampling plans shall be in accordance with MIL-STD-105, Inspection Level II.

2/ Inspect in accordance with 4.8.14 of MIL-L-85762, Spectral radiance measurements except that the radiance limit shall be as specified on Dwg. 12597636.

3/ Alternate Method to be pre-approved by the Government (see 6.3). An edge light panel, which has been inspected and accepted to the requirements of 4.8.14 of MIL-L-85762 may be used in production (5 or more) as an IR calibration source."

PAGE 17

4.4.2.8 Delete in its entirety.

PAGE 18

4.4.2.9 Delete in its entirety.

MIL-C-48890B (3) ■ 999906 2072551 492 ■

MIL-C-48890B (AR)
AMENDMENT 3

PAGE 21

- * ~~4.5.2 Low temperature. Delete "... -54 ± 2°C according to MIL-STD-810C, Test Method 502.1 ..." and substitute "... -51 ± 2° for 24 hours according to MIL-STD-810, Test Method 502.3, Procedure II, Severe Cold, ...".~~
 - * ~~4.5.3 High temperature. Delete "... according to MIL-STD-810C, Test Method 501.1 ..." and substitute "... for 72 hours according to MIL-STD-810, Test Method 501.3, Procedure II, Hot, ...".~~
 - * ~~4.5.4 Transportation vibration. Delete "... MIL-STD-810C, Method 514.2, Procedure X using curve AW of Figure 514.2-7 (change curve to 0.8" Displacement (double amplitude) between 5 and 6 Hz)." and substitute "... MIL-STD-810, Method 514.4, Basic Transportation, Category I."~~
- PAGE 22
- * ~~4.5.5 Helicopter vibration. Delete "... MIL-STD-810C, Test Method 514.2, Procedure I, Part 2. One DCP should be tested to curve C of Figure 514.2-2 and the other DCP should be tested to curve M of Figure 514.2-3." and substitute "... MIL-STD-810, Method 514.4, Category 6."~~
 - * ~~4.5.6 Shock. Delete "... MIL-STD-810C, Test Method 516.2, Procedure I, using peak value (a) and nominal duration (s) in Figure 516.2.1." and substitute "... MIL-STD-810, Test Method 516.4, Procedure I, applying three (3) sawtooth pulses in each direction along three (3) mutually perpendicular axes for a total of eighteen (18) shocks at a peak value of 20g's and a nominal duration of 11 ms."~~

5.1.1: Delete "... drawing 9321931 ..." and substitute "... Special Packaging Instructions P9272533 ...".

5.2.1: Delete "... drawing 9321931 ..." and substitute "... Special Packaging Instructions P9272533 ...".

MIL-C-48890B (3) ■ 9999906 2072552 329 ■

MIL-C-48890B(AR)
AMENDMENT 3

5.3.1: Delete "... drawing 9321931 ..." and substitute "...
Special Packaging Instructions P9272533 ...".

The margins of this amendment are marked with an asterisk or vertical lines to indicate where changes (additions, modifications, corrections, deletions) from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

Custodian:
Army-AR

Preparing activity:
Army-AR

(Project 1345-0046)

CONTRACT SECTION C WORKSHEET

DATE 01/14/00

PRON P49SGB02 AMC 1 AMSC G ATC _____

TDPL 9311434 TDPL DATE 05/17/99

NSN 5998-01-065-9028 NOMENCLATURE DISPENSER ASSEMBLY

ENGINEERING EXCEPTIONS: The following engineering exceptions apply to this procurement action(s):

-	DOCUMENT	DELETE	ADD OR REPLACE WITH
	9280368	REV D	REV E (8 SHEETS, HARD COPY)
PL	9311434	REV D	UPDATED REV D (1 SHEET, HARD COPY)
SPI	9311434	REV C	REV D (1 SHEET, HARD COPY)
	9311443	REV E	UPDATED REV E (1 SHEET, HARD COPY)
	9311482		REV G (1 SHEET, HARD COPY)
	9311494	REV L	REV M (1 SHEET, HARD COPY)
PL	9311494	REV G	UPDATED REV G (1 SHEET, HARD COPY)
	9311610	REV F	UPDATED REV G (1 SHEET, HARD COPY)
	9311684	REV D	REV E (1 SHEET, HARD COPY)
	9311686	REV C	REV D (1 SHEET, HARD COPY)
	9321253	BASE	
	9327759		REV B (1 SHEET, HARD COPY)
QAP	9354498		PAGE 5, CHANGE FROM P/N 9354993 TO P/N 9354498
	MIL-B-7883	REV C	AWS C3.4, AWS C3.5, AWS C3.6 & AWS C3.7
	MIL-D-63123	AMD 2 & NOTICE 1	UPDATED AMD 2 & NOTICE 1 (4 SHEETS, HARD COPY)
	MIL-P-18177	REV C	MIL-I-24768/2 & MIL-I-24768/3
	MIL-T-6845	REV D & NOTICE 2	SAE AMS-T-6845
	MIL-STD-105	REV E	MIL-STD-1916, VL IV FOR MAJOR CHARACTERISTICS & VL II FOR MINOR CHARACTERISTICS
	MIL-STD-810	REV E & NOTICE 1	REV C
	MIL-STD-2000	REV A	IPC J-STD-001
	MS18064	REV A	NASM18064, BASE
	MS20426	REV L	NASM20426, BASE
	MS21044	REV H	NASM21044, BASE
	MS21075	REV H	NASM21075, BASE
	MS21209	REV E	NASM21209, BASE
	NAS1786	BASE	REV 2
	NAS671	REV 3	REV 6
	QQ-A-200	REV E & NOTICE 4	SAE AMS-QQ-A-200, ASTM B221 & ASTM B308
	QQ-A-200/8	REV F & NOTICE 4	SAE AMS-QQ-A-200, ASTM B221 & ASTM B308
	QQ-S-571	REV F	IPC J-STD-004, J-STD-005 & J-STD-006

MYLARS REQUIRED (Check one): Yes No

CERTIFICATION SIGNATURE(S) / CONCURRENCE

ENG
DONALD R. SEERS *Donald R Seers* 01/14/00 AMSTA-AR-FSA-R 793-5342
 Type/Print Name Signature Date Office Symbol DSN Telephone

LCSE

 Type/Print Name Signature Date Office Symbol DSN Telephone

PKG

 Type/Print Name Signature Date Office Symbol DSN Telephone

PAD

 Type/Print Name Signature Date Office Symbol DSN Telephone

SPECIAL PACKAGING INSTRUCTION

Form Approved
OMB No. 0704-0188

1. PART OR DRAWING NO. NOMENCLATURE DISPENSER ASSEMBLY			2. CODE IDENT 19200	3. SPI NO. (AM) P9311434
4. NATIONAL STOCK NO. 5998-01-065-9028			5. DATE	5. REVISION D/
7. QUP/UNIT OF ISSUE 1/EA	8. ICQ	9. UNIT PACK WT (lb) (0.0) 12.0	8. UNIT PACK CU (CU.FT) 0.491	9. UNIT PACK SIZE (INCHES) 14.0 X 11.0 X 5.5
		18. STEP	19. REQD	20. DESCRIPTION
10. MILITARY PRESERVATION MIL-STD-2073-1 METHOD 41 (SEE NOTE D)		1	AR	CAPS, NAS-847, SEE NOTE (E)
		2	1	BAG, MIL-B-117, TY-1, CL E
		3	1	CONTAINER, ASTM D 5118, GR WR
		4		CLOSURE IAW ASTM D 1974
11. CLEANING *				
12. DRYING *				
13. PACKING				
a. LEVEL A MIL-STD-2073-1 TABLE C. II.				
b. LEVEL B MIL-STD-2073-1 TABLE C. II.				
16. MARKING MIL-STD-129				

17. NOTES/DRAWING

(A) MATERIALS WILL BE MINIMUM SIZE IN ACCORDANCE WITH MIL-STD-2073-1.

(B) TOLERANCES SHALL BE IN ACCORDANCE WITH MATERIAL SPECIFICATIONS. QUALITY PERFORMANCE AND TESTING REQUIREMENTS SHALL BE IN CONFORMANCE WITH MIL-STD-2073-1, OR AS OTHERWISE SPECIFIED.

(B) WEIGHTS AND SIZES ARE ESTIMATED AND MAY VARY SLIGHTLY.

(C) INTERMEDIATE PACKING AND PACKING WILL BE IN ACCORDANCE WITH SPECIFICATION MIL-STD-2073-1 OR AS OTHERWISE STATED HEREON.

* UNLESS OTHERWISE SPECIFIED, CLEANING AND DRYING SHALL BE IN ACCORDANCE WITH PARAGRAPH 5.2.1 OF MIL-STD-2073-1.

(D) METHOD 41 WITH SUPPLEMENTAL UNIT CONTAINER

(E) PLACE CAPS OVER CONNECTORS

BOOK FORM "A" SIZE

FUNCTIONAL TEST SYSTEM REQUIREMENTS FOR DISPENSER ASSEMBLY
DRAWING 9280368

1. **Purpose.** These instructions are provided as guidance in the design, fabrication, and operation of a system to perform functional testing of the M130 Dispenser Assembly.

2. **General Requirements.** The functional testing system shall consist of the following:
 - A. Equipment capable of performing functional testing of the M130 Dispenser Assembly as stated herein.
 - B. Technical data on the functional testing equipment design.
 - C. Specifications for commercial items within the functional testing equipment.
 - D. Calibration and set up procedures for the functional testing equipment.
 - E. Functional testing equipment operating instructions.
 - F. Test plans for performing functional and verification testing of the M130 Dispenser Assembly to the item acceptance criteria.

- 2.1 **Government Approval.** The contractor shall submit the data, B thru F above, to AMSMC-QAT-I(D) for approval prior to use of the functional testing.

3. **Equipment Requirements.** The functional testing system equipment shall consist of, at a minimum, the following equipment.
 - 3.1 **Chart Recorder.** The system shall include a thermal or ink writing strip chart recorder with a frequency response of 3 dB at 140 Hz, a chart speed of 125mm/sec, a range of 1 volt/division, and an accuracy of $\pm 2\%$ of full scale. The chart recorder shall record data on the dispense pulse outputs from the Dispenser Assembly.
 - 3.2 **Oscilloscope.** The system shall include an oscilloscope (recommend for use: A Single Channel Storage Oscilloscope; rise time of scope plus measuring probe 1 microseconds or less; sweep perior 5 milliseconds per division or better; input resistance greater than 8 Megohm; capacitance less than 25 microfarads (up), or similar device which shall indicate presence of a flare detection signal from the Dispenser Assembly Flare Detector.
 - 3.3 **Multimeter.** The system shall include a multimeter or a similar device which shall indicate presence of stray voltage on the Dispenser Assembly Firing Pins.

TITLE TEST SET-UP FOR FUNCTION TEST (DISPENSER TESTING)	SIZE	FSCM NO.	DRAWING NO.
	A	19200	9280368
SCALE		REVISION LEVEL C	SHEET 2

SMCAR FORM 71, 1 JUL 87(TEMP) REPLACES SMCAR FORM 71, 1 JUN 86(TEMP) WHICH IS OBSOLETE

BOOK FORM "A" SIZE

3.4 Flare Simulator. The system shall contain a Flare Simulator Assembly per drawing #9326117 (or equivalent photographic camera flash unit per drawing #9280390) and a Test Setup per Figure 3. When activated the Flare Simulator shall produce an output from the Flare Sensor Assembly circuitry in the Dispenser.

3.5 Flare or Chaff Dispenser Indicators. The system shall include electrical detection devices to indicate firing pulses on each of the Dispenser Assembly firing pins.

3.6 Flare and Chaff Cascade Indicators. The system shall include 28V electrical lamps or similar electrical detection devices to indicate when the Dispenser Assembly is in the Flare or Chaff Cascade mode.

3.7 DC Power Supply. The system shall include a DC power supply or similar equipment capable of supplying 22.5 to 30.0 VDC regulated with a capacity of 7 Amps and an AC ripple of less than 50 MV peak-to-peak.

3.8 Flare Detection Interface Circuit. The system shall include a Flare Detection Interface Circuit per Figure 4.

4. Performance Requirements. The functional testing system shall be capable of performing the following test procedure on the Dispenser Unit Under Test (DUUT).

4.1 Power Up - Maximum Voltage. Apply +30 VDC \pm 0.5 volts to pin 8 of J1 connector on the DUUT (the DUUT breech plate shall be grounded).

4.2 Stray Voltage Test. Test for voltage to ground across a 3.0 \pm 0.5 ohm load at each of the 30 firing pins (a reading of less than 1 volt for less than 3 seconds duration shall not be cause for rejection). A constant voltage reading greater than 0.0 volts shall reject the DUUT.

TITLE TEST SET-UP FOR FUNCTION TEST (DISPENSER TESTING)	SIZE A	FSCM NO. 19200	DRAWING NO. 9280368	
	SCALE	REVISION LEVEL E	SHEET 3	

BOOK FORM "A" SIZE

4.3 Flare Detection Signal Test.

- A. On DUUT, set C-F selector switch to F position.
- B. Connect pin 11 of the J1 connector to the Flare Detection Interface Circuit per Figure 4.
- C. Position the Flare Simulator so that the flash tube light source is centered 6 ± 0.5 inches above the cylindrical axis of the Flare Sensor Assembly on the DUUT per Figure 3.
- D. Charge and trigger the Flare Simulator such that the firing of one flare is simulated. A pulse of 6.5 volts minimum shall be detected at the output of the Flare Detection Interface Circuit. If the pulse signal is not detected, the DUUT shall be rejected.

4.4 Flare Mode of Tests.

- A. Depress the reset button on the breech plate to reset the DUUT.
- B. Apply 10 dispense pulses, per Figure 1, to pin 5 of J1 connector. Ten firing pulses, per Figure 2, shall be detected from 10 firing pins, numbered 1 to 10 on the breech plate.
- C. Remove power up voltage to pin 8 to J1 connector momentarily then reconnect.
- D. Apply 10 dispense pulses, per Figure 1, to pin 5 of J1 connector. Ten firing pulses, per Figure 2, shall be detected from 10 firing pins, numbered 11 to 20 on the breech plate.
- E. Remove power up voltage to pin 8 of J1 connector momentarily then reconnect.
- F. Apply continuous dispense pulses, per Figure 1, to pin 5 of J1 connector. Ten firing pulses, per Figure 2, shall be detected from 10 firing pins, numbered 21 to 30 on the breech plate, and an output for flare cascade, per Figure 1, from pin 6 of J1 connector shall be detected. If the firing pulses do not correspond to Figure 2, if the correct firing order is not indicated, if no flare cascade is indicated, or if the DUUT does not reset, the DUUT shall be rejected.

TITLE TEST SET-UP FOR FUNCTION TEST (DISPENSER TESTING)	SIZE	FSCM NO.	DRAWING NO.
	A	19200	9280368
SCALE	REVISION LEVEL	E	SHEET 4

SMCAR FORM 71, 1 JUL 87(TEMP) REPLACES SMCAR FORM 71, 1 JUN 86(TEMP)
WHICH IS OBSOLETE

BOOK FORM "A" SIZE

4.5 Chaff Mode of Tests.

A. On the DUUT, set the C-F selector switch to the C position.

B. Depress the reset button on the breech plate to reset the DUUT.

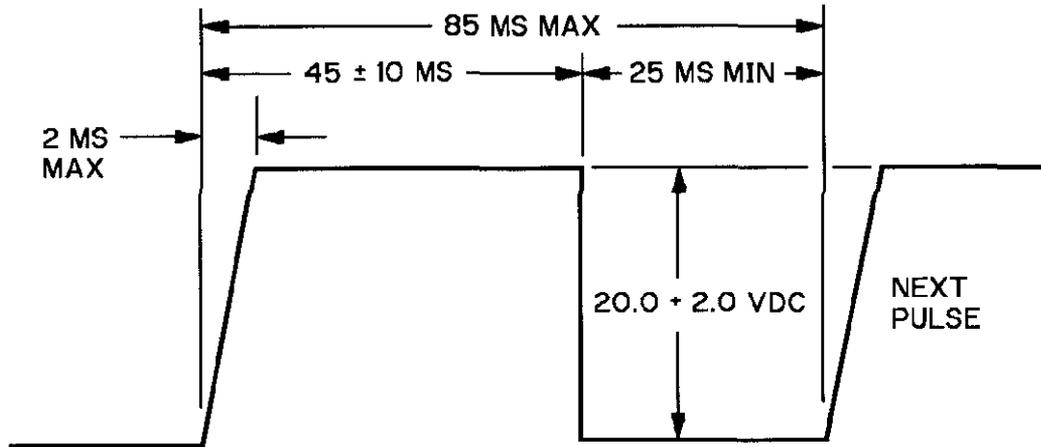
C. Apply continuous dispense pulses per Figure 1 to pin 1 of J1 connector until 30 firing pulses, per Figure 2, are detected from each of the 30 firing pins in the order indicated on the breech plate and an output for chaff cascade, per Figure 1, from pin 2 of J1 connector is detected. If the firing pulses do not correspond to Figure 2, if no chaff cascade is indicated, or if the DUUT does not reset, the DUUT shall be rejected.

4.6 Power Up - Minimum Voltage. Change applied voltage to pin 8 of J1 connector to 22.5 ± 0.5 volt and repeat steps 4.2 thru 4.5 above.

TITLE TEST SET-UP FOR FUNCTION TEST (DISPENSER TESTING)	SIZE	FSCM NO.	DRAWING NO.
	A	19200	9280368
SCALE		REVISION LEVEL B	SHEET 5

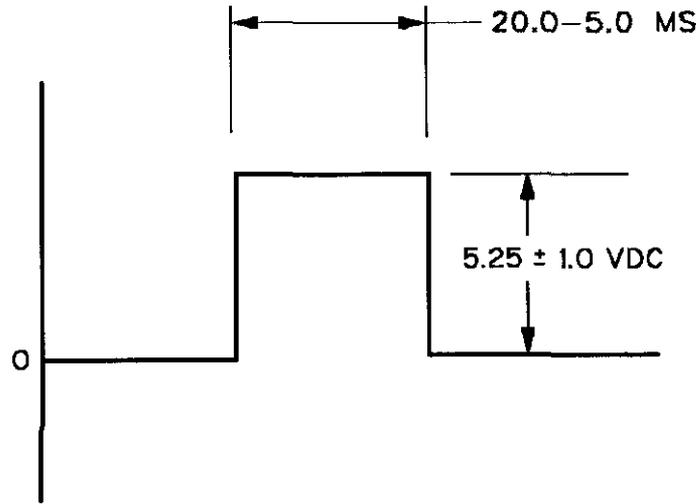
SMCAR FORM 71, 1 JUL 87(TEMP) REPLACES SMCAR FORM 71, 1 JUN 86(TEMP) WHICH IS OBSOLETE

BOOK FORM "A" SIZE



INPUT CHAFF OR FLARE DISPENSE PULSES

FIGURE 1



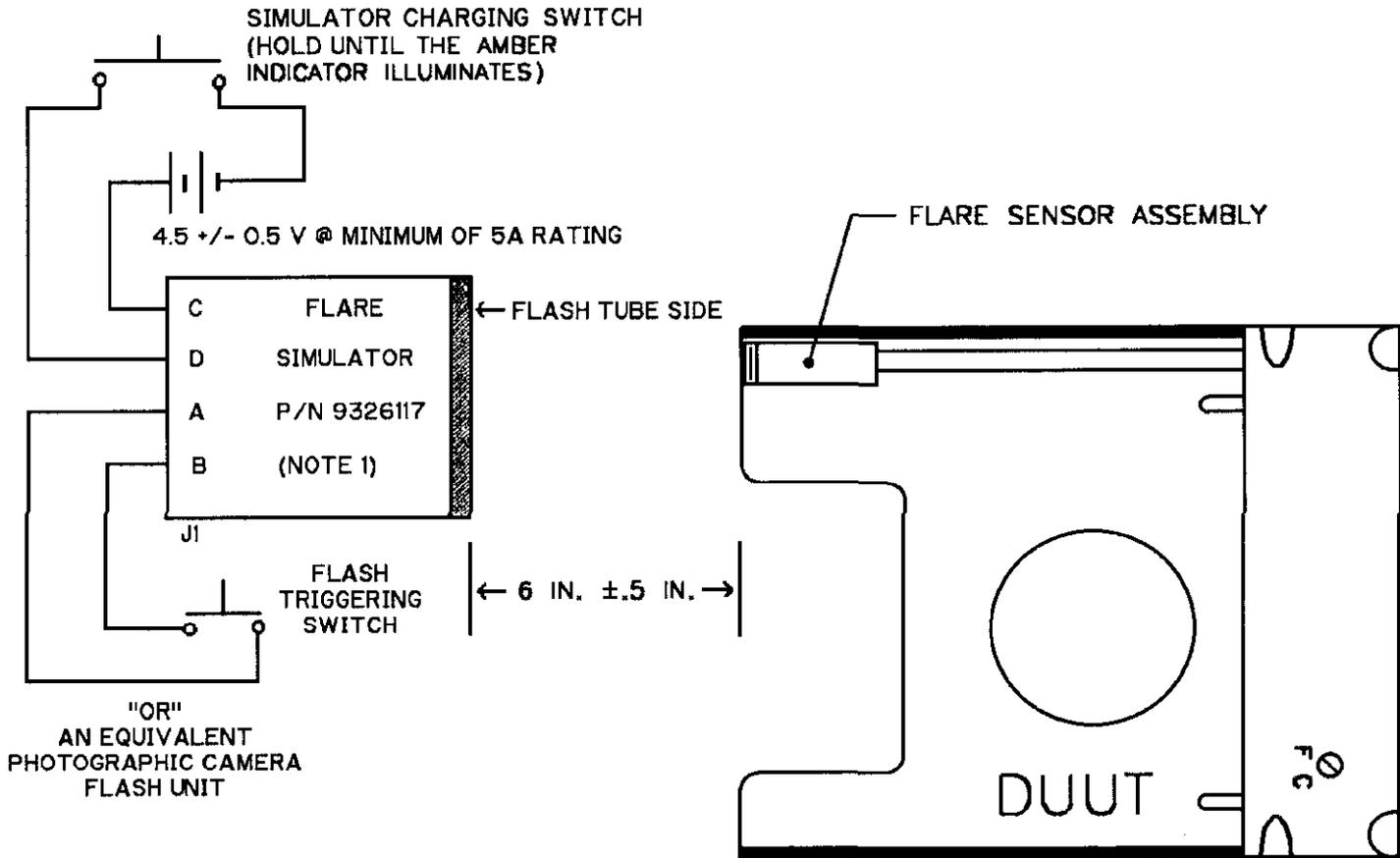
OUTPUT FIRING PULSES

(INTO A RESISTIVE LOAD OF 1.0 ± 0.1 OHM
LOAD SHALL BE APPLIED ONLY FOR 20.0-5.0MS)

FIGURE 2

TITLE TEST SET-UP FOR FUNCTION TEST (DISPENSER TESTING)	SIZE A	FSCM NO. 19200	DRAWING NO. 9280368
	SCALE	REVISION LEVEL D	SHEET 6

BOOK FORM "A" SIZE



NOTE

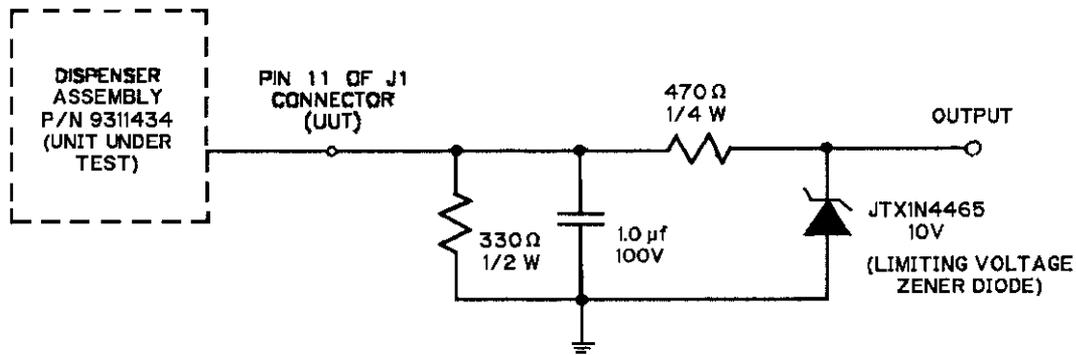
- 1 - ASSOCIATED PART NUMBER/DRAWINGS REQUIRED
 9311557, 9326113, 9326114, 9326115, 9326116, 12561320, 12624724, 12624727,
 12624730, 12624731, 12624732, 12624733, 12624734, 12624794, 12624795, 12909983 & 12909985
 EXCLUDE THE ROD (9326111) AND HUB MOUNTING (9326112-1) AND ASSOCIATED MOUNTING HARDWARE
 EXCLUDE PLATE IDENTIFICATION (9326749).

TEST SETUP
 FIGURE 3

TITLE TEST SET-UP FOR FUNCTION TEST (DISPENSER TESTING)	SIZE	FSCM NO.	DRAWING NO.
	A	19200	9280368
SCALE		REVISION LEVEL E	SHEET 7

SMCAR FORM 71, 1 JUL 87(TEMP) REPLACES SMCAR FORM 71, 1 JUN 86(TEMP)
 WHICH IS OBSOLETE

BOOK FORM "A" SIZE



FLARE DETECTION INTERFACE CIRCUIT
FIGURE 4

TITLE
TEST SET-UP FOR
FUNCTION TEST (DISPENSER
TESTING)

SIZE
A 19200

FSCM NO.

DRAWING NO.

9280368

SCALE

REVISION LEVEL E

SHEET 8

ARMAMENT RESEARCH, DEVELOPMENT & ENGINEERING CENTER

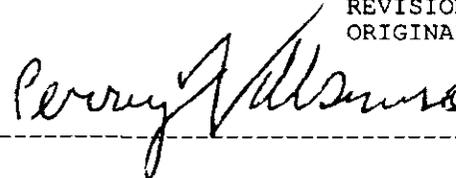
SHEET NO 1

PICATINNY ARSENAL, NEW JERSEY 07806-5000

PARTS LIST : PL-19200-9311434
DOCUMENT NUMBER : F 19200-9311434
NOMENCLATURE : DISPENSER ASSEMBLY
CHANGE CONTROL NO.: G6F2004

REVISION SYMBOL: D
REVISION DATE : 09/24/96
ORIGINAL DATE : 09/07/77

AUTHENTICATION-



FIND NUMBER	QTY REQD	CAGE	PART/IDENTIFYING NUMBER	DRAWING SIZE	DRAWING/DOCUMENT NUMBER	NOMENCLATURE OR DOCUMENT TITLE	SUP LIST
0001		19203	9311424	C	9311424	PLUNGER, RESET SWITCH	
0001		19200	9311426	F	9311426	COVER ASSEMBLY, DISPENSER	X
0001		19200	9311427	F	9311427	PLATE, MOUNTING, DISPENSER	
0001		19200	9311437	F	9311437	BREECH ASSEMBLY	X
0001		19200	9311443	F	9311443	SEQUENCER ASSEMBLY	X
0001		19200	9311494	F	9311494	FLARE SENSOR ASSEMBLY	X
0001		19200	9311685	C	9311685	CLAMP, END	
0001		19200	9311689	C	9311689	CLAMP	
0001		19200	9311690	D	9311690	PLATE, IDENTIFICATION, DISPENSER ASSEMBLY	
AR		19200	9321253	A	9321253	CUSHION	
0001		19200	9327760-1	A	9327760	CONNECTOR, FLARE SENSOR	
0001		19200	9327760-2	A	9327760	CONNECTOR, FLARE SENSOR	
0002		81352	AN960-C4L	A	AN960	WASHER, FLAT	
AR		19200	MIL-S-22473-H		MIL-S-22473	SEALING, LKG, RETAINING CMPDS: SINGLE CMPNT, GRADE H	
AR		19200	MIL-S-8660		MIL-S-8660	SILICONE COMPOUND, NATO CODE NUMBER S-736	
AR		19200	MIL-V-173		MIL-V-173	VARNISH, MOISTURE RESISTANT	
0002		96906	MS21043-04	A	MS21043	NUT, SELF-LOCKING, 800 DEG F RDCD HEX, RDCD HGT R/B NCRES	
0002		96906	MS21044-C04	A	MS21044	NUT, SELF-LOCKING, HEX-REG HGT, 250 DEG F 125, 60 KSI. FTU	
0004		96906	MS24693-C47	A	MS24693	SCREW, MACH, FLT CTSK HD, 100DEG., X RECSD, UNC-2A/UNF-2A	
0013		96906	MS24693-C49	A	MS24693	SCREW, MACH, FLT CTSK HD, 100DEG., X RECSD, UNC-2A/UNF-2A	
0002		96906	MS51957-43	A	MS51957	SCREW, MACHINE-PAN HD, CROSS-RECESSED, CRES, UNC-2A	
0002		96906	MS51959-14	A	MS51959	SCREW, MACH-FL CTSK HD, 82, X-REC, CRES STL, PSVT, UNC-2A	
0002		96906	MS51959-17	A	MS51959	SCREW, MACH-FL CTSK HD, 82, X-REC, CRES STL, PSVT, UNC-2A	

TOTAL PAGES TO PARTS LIST: 1

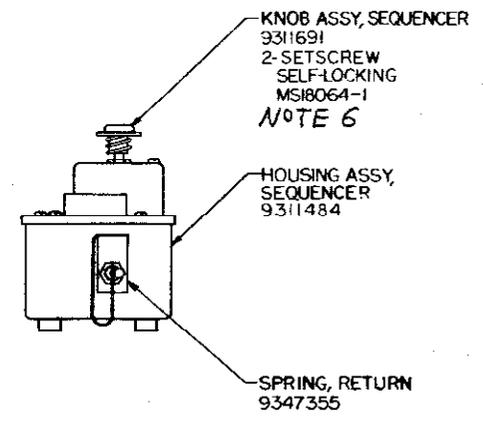
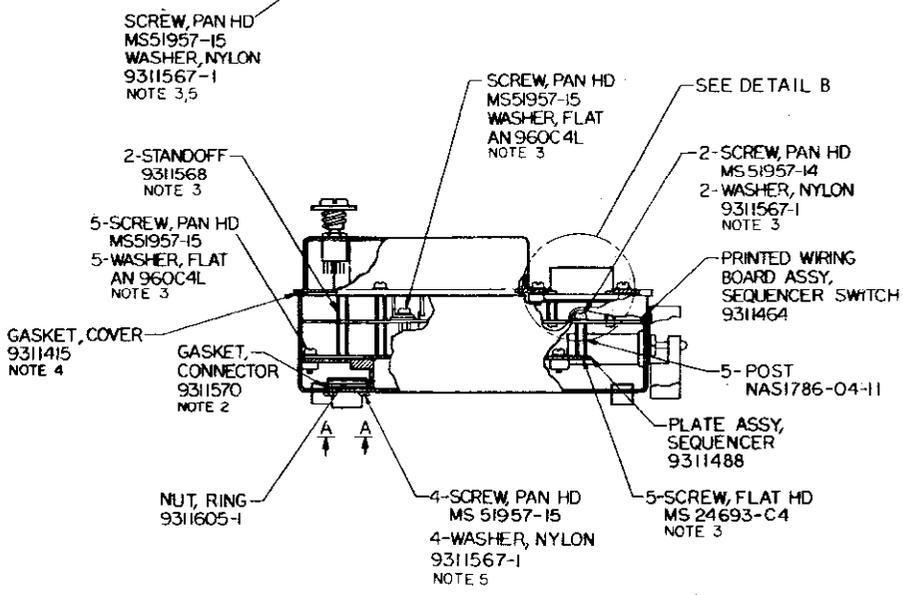
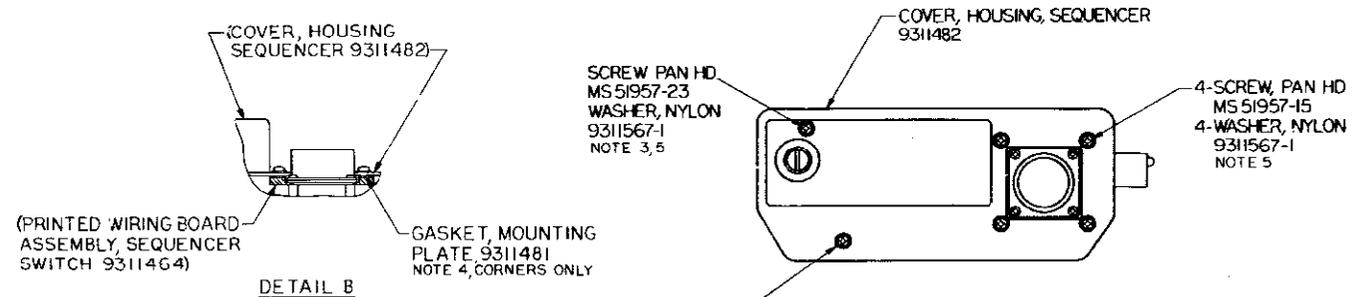
QTY REQD: AR - AS REQUIRED ALT - ALTERNATE, OPT - OPTIONAL, SO - SELECTION OPTIONAL

DISTRIBUTION STATEMENT A.
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DISTRIBUTION IS UNLIMITED

ATTACHMENT 008

CLIN 0003

REV	DESCRIPTION	DATE	APPROVAL
—	PRELTD 9501 REF	77-03-1	
A	NORW802505	78-02-15	
B	NORW802505	78-05-30	
C	NORW902500/79-01-23 NORW902504/79-02-27 NORW902505/79-03-05	79-03-18	
D	NORW902516/79-06-22	79-08-27	
E	NORW102019/81-11-25	82-05-04	



- NOTES:-
- 1-SPEC MIL-A-2550 AND ANSI Y145-1973 APPLY
 - 2-APPLY ADHESIVE RUBBER, TYPE III, SPEC MMM-A-1617 TO HOUSING SIDE OF GASKET.
 - 3-APPLY SEALING COMPOUND, GRADE H, SPEC MIL-S-22473 TO ALL THREADS.
 - 4-APPLY ADHESIVE RUBBER, TYPE III, SPEC MMM-A-1617 TO COVER SIDE, PART NO. 9311482, OF GASKET. ASSEMBLY GASKET 9311415 SO THAT THE 2.16 SIDE IS ALIGNED WITH THE 2.265 SIDE OF THE COVER, 9311482.
 - 5-INSTALL SCREWS USING 4 TO 6 INCH LBS OF TORQUE.

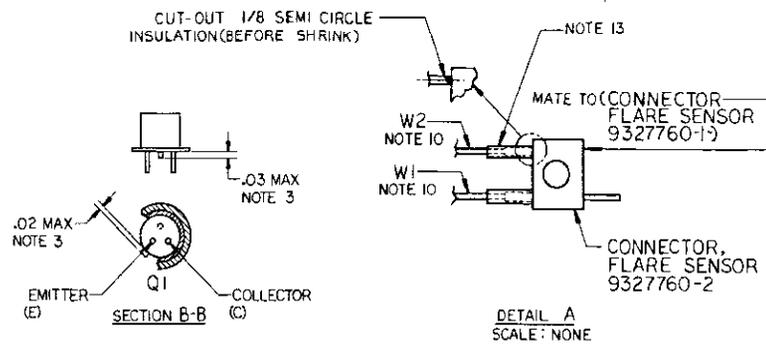
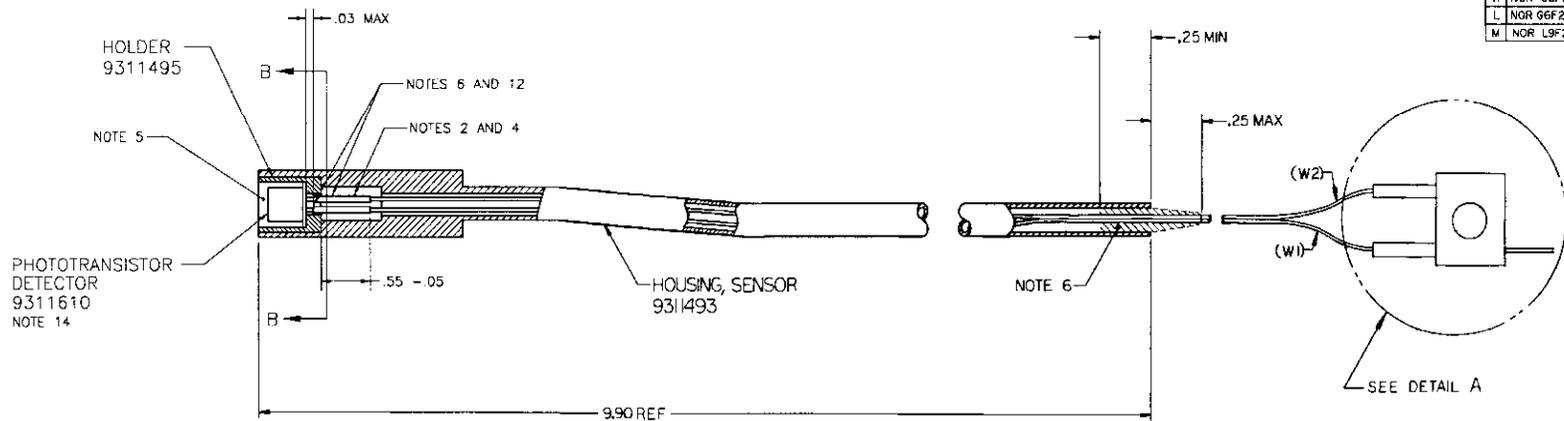
6- POSITION KNOB ASSEMBLY SO THAT THE SLOT ON TOP WILL ALIGN WITH THE "C" AND "F" MARKINGS ON THE DISPENSER COVER (P/N 9311426) AT FINAL ASSEMBLY.

SEE SEPARATE PARTS LIST 9311443

PART NO. 9311443

MECHANICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		77-9-7	
FRACTIONS OR DECIMALS		FRACTIONS		DECIMALS	
3/16 3/8 1/2 5/8 3/4 7/8 1 1 1/4 1 1/2 1 3/4 2 2 1/4 2 1/2 3 3 1/4 3 1/2 4 4 1/4 4 1/2 5 5 1/4 5 1/2 6 6 1/4 6 1/2 7 7 1/4 7 1/2 8 8 1/4 8 1/2 9 9 1/4 9 1/2 10 10 1/4 10 1/2 11 11 1/4 11 1/2 12 12 1/4 12 1/2 14 14 1/4 14 1/2 16 16 1/4 16 1/2 18 18 1/4 18 1/2 20 20 1/4 20 1/2 22 22 1/4 22 1/2 24 24 1/4 24 1/2 26 26 1/4 26 1/2 28 28 1/4 28 1/2 30 30 1/4 30 1/2 32 32 1/4 32 1/2 34 34 1/4 34 1/2 36 36 1/4 36 1/2 38 38 1/4 38 1/2 40 40 1/4 40 1/2 42 42 1/4 42 1/2 44 44 1/4 44 1/2 46 46 1/4 46 1/2 48 48 1/4 48 1/2 50 50 1/4 50 1/2 52 52 1/4 52 1/2 54 54 1/4 54 1/2 56 56 1/4 56 1/2 58 58 1/4 58 1/2 60 60 1/4 60 1/2 62 62 1/4 62 1/2 64 64 1/4 64 1/2 66 66 1/4 66 1/2 68 68 1/4 68 1/2 70 70 1/4 70 1/2 72 72 1/4 72 1/2 74 74 1/4 74 1/2 76 76 1/4 76 1/2 78 78 1/4 78 1/2 80 80 1/4 80 1/2 82 82 1/4 82 1/2 84 84 1/4 84 1/2 86 86 1/4 86 1/2 88 88 1/4 88 1/2 90 90 1/4 90 1/2 92 92 1/4 92 1/2 94 94 1/4 94 1/2 96 96 1/4 96 1/2 98 98 1/4 98 1/2 100 100 1/4 100 1/2		DRAWN BY: GDB		CHECKED BY: GDB	
9311443 GEN DISP		DATE: 7/7/77		BY: GDB	
NEXT ASSY: USED ON:		SCALE: 1/1		TIGHTEN: 1	
APPLICATION:		DRAWN BY: GDB		CHECKED BY: GDB	
REV: F		DATE: 8/20/83		PART NO: 9311443	
SHEET:		SHEET:		SHEET:	

REVISIONS				
SYMBOL	DESCRIPTION	DATE	APPROVAL	
	ERRA702501 REL	77-9-7		
A	NORW802503	78-03-27	DMC	
B	NORW802505	78-06-30	DMC	
C	NORW802511	78-7-24	7809-27	DMC
D	NORW802516/7810-26	78-11-08	DMC	
E	NORW902500/79-01-23	79-03-18	DMC	
F	NORW902518/790622	79-08-27	DMC	
G	NORW002500/80-02-27	80-06-03	DMC	
H	NORW102012/81-09-04	81-10-16	DMC	
J	NOR G3N2009 930721	83 10 6	FTS	
K	NOR GGF2001 960228	960531	RLV	
L	NOR GGF2004 960711	960924	FET	
M	NOR L9F2000 990614	990720	RLV	



- NOTES:-
- 1 - SPEC MIL-A-2550 AND ANSI Y14.5-1973 APPLY.
 - 2 - SOLDER IN ACCORDANCE WITH SPEC MIL-STD-2000, USING SN60 OR SN63, SPEC QQ-S-571.
 - 3 - REMOVE TAB AND BASE LEAD AS SHOWN.
 - 4 - INSULATE WITH SLEEVING, HEAT SHRINKABLE, M23053/5-102-Q, SPEC MIL-I-23053/5.
 - 5 - FILL INDICATED AREA WITH COMPOUND, DWG 9311607. COMPOUND MAY EXTEND BEYOND END OF SENSOR HOUSING. THE OUTER CURED SURFACE SHALL BE SMOOTH, WITHOUT ANY VISIBLE PITS OR IRREGULARITIES, AND SHALL BE FLAT OR CONVEX IN SHAPE.
 - 6 - FILL INDICATED AREA WITH COMPOUND, POTTING 9311608-1 AND CATALYST, POTTING 9311608-2.
 - 7 - STRIP INSULATION BACK .25 ± .05.
 - 8 - USE WIRE M81044/12-24-9, SPEC MIL-W-81044/12.
 - 9 - USE WIRE M81044/12 24 2, SPEC MIL-W-81044/12.
 - 10 - CUT WIRE W1, W2 APPROX 15 INCH LONG AND SOLDER W1 AND W2 TO CONNECTOR, FLARE SENSOR 9327760-2 (NOTE 2)
 - 11 - FOR SPARE PARTS REQUIREMENT ONLY SEE MIL-D-63199 (AR).
 - 12 - POTTING SHALL SEAL AND ADHERE BOTH THE PHOTOTRANSISTOR TO THE HOLDER AND THE HOLDER TO THE SENSOR HOUSING.
 - 13 - INSULATE WITH SLEEVING, HEAT SHRINKABLE, M23053/5-103-Q, SPEC MIL-I-23053/5.
 - 14 - THE PHOTOTRANSISTOR SHALL BE POSITIONED CONCENTRICALLY INSIDE THE HOLDER.

WIRE DATA									
TYPE	AWG	COLOR	LENGTH	FROM		PATH	TO		REMARKS
				LOCATION	NOTES		LOCATION	NOTES	
	24	WHITE	16 IN - 11 IN	Q1-E	7 & 8		W1	10	
	24	RED	16 IN - 11 IN	Q1-C	7 & 9		W2	10	

SEE SEPARATE PARTS LIST 931494

PART NO. 931494

MECHANICAL PROPERTIES	DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE OF DRAWING 77-9-7	U.S. ARMY AMMUNITION RESEARCH AND DEVELOPMENT CENTER DOVER, NEW JERSEY 07801
TEMP	TOLERANCES ON DIMENSIONS IN INCHES: FRACTIONS ± ANGLES ±	DEFINITION: GDD, R.C., R.W.C., R.P.R., R.S., R.T., R.V., R.W., R.X., R.Y., R.Z., R.A., R.B., R.C., R.D., R.E., R.F., R.G., R.H., R.I., R.J., R.K., R.L., R.M., R.N., R.O., R.P., R.Q., R.R., R.S., R.T., R.U., R.V., R.W., R.X., R.Y., R.Z.	
931434 GEN DISP	M-130	SIZE F	FSQM NO 19200
NEXT ASSY USED ON		931494	
APPLICATION		SCALE #/1	SHEET

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CLIN 0003

ARMAMENT RESEARCH, DEVELOPMENT & ENGINEERING CENTER

SHEET NO 1

PICATINNY ARSENAL, NEW JERSEY 07806-5000

PARTS LIST : PL-19200-9311494
 DOCUMENT NUMBER : F 19200-9311494
 NOMENCLATURE : FLARE SENSOR ASSEMBLY
 CHANGE CONTROL NO. : G6F2001

REVISION SYMBOL: G
 REVISION DATE : 05/31/96
 ORIGINAL DATE : 09/07/77

AUTHENTICATION-

FIND NUMBER	QTY REQD	CAGE	PART/IDENTIFYING NUMBER	DRAWING SIZE	DRAWING/DOCUMENT NUMBER	NOMENCLATURE OR DOCUMENT TITLE	SUP LIST
	0001	19203	9311493	C	9311493	HOUSING, SENSOR	X
	0001	19203	9311495	C	9311495	HOLDER	
	AR	19203	9311607	A	9311607	ENCAPSULATING COMPOUND, EPOXY TRANSPARENT COLORLESS	
	AR	19203	9311608-1	A	9311608	RUBBER SILICONE ENCAPSULATING COMPOUND	
	AR	19203	9311608-2	A	9311608	RUBBER SILICONE ENCAPSULATING COMPOUND	
	0001	19203	9311610	D	9311610	SEMICONDUCTOR DEVICE, PHOTOTRANSISTOR, NPN	
	0001	19200	9327760-2	C	9327760	CONNECTOR, FLARE SENSOR	
	AR	19200	M23053/5-102-0		MIL-I-23053/5	INSUL SLEEVING, ELEC, HT SHRINKABLE, .063 ID, BLACK	
	AR	19200	M23053/5-103-0		MIL-I-23053/5	INSUL SLEEVING, ELEC, HT SHRINKABLE, .093 ID, BLACK	
	AR	19200	M23053/5-105-0		MIL-I-23053/5	INSUL SLEEVING, ELEC, HT SHRINKABLE	
	AR	19200	M81044/12-24-2		MIL-W-81044/12	WIRE, ELECTRICAL, INSULATED, 24 AWG, RED	
	AR	19200	M81044/12-24-9		MIL-W-81044/12	WIRE, ELEC, INSUL, TINCOATED COP, LTWT, SIZE22, CLR WHT	
/1/	AR	19200	QQ-S-571-SN60		QQ-S-571	SOLDER, TIN ALLOY, COMPOSITION SN60	
/1/	SO	19200	QQ-S-571-SN63		QQ-S-571	SOLDER, TIN-LEAD ALLOY, SHORT MELTING RANGE	
	0001	19200	RLR20C33006S		MIL-R-39017/2	RESISTOR	

TOTAL PAGES TO PARTS LIST: 1

QTY REQD: AR - AS REQUIRED ALT - ALTERNATE, OPT - OPTIONAL, SO - SELECTION OPTIONAL

DRAWING SIZE D

NOTES:-
1- PREPARED IN ACCORDANCE WITH DOD-STD-100.

2- REQUIREMENTS:

- A. DEVICES SUPPLIED TO THIS DRAWING SHALL HAVE BEEN SUBJECTED TO 168 HOURS OF BURN-IN AT $25 \pm 0.5^\circ\text{C}$ WHILE DISSIPATING 150 mW MINIMUM.
- B. ELECTRICAL CHARACTERISTICS SHALL BE IN ACCORDANCE WITH TABLE 1 AND SHALL APPLY AFTER BURN-IN.
- C. MAXIMUM RATINGS:
STORAGE TEMPERATURE RANGE..... -65°C TO $+150^\circ\text{C}$
OPERATING TEMPERATURE RANGE..... -65°C TO $+125^\circ\text{C}$
COLLECTOR TO EMITTER VOLTAGE..... 50 VDC
TOTAL DISSIPATION AT 25°C 250 mW
CONTINUOUS COLLECTOR CURRENT..... 50 mA

D. WHEN TESTED IN ACCORDANCE WITH THE METHODS OF MIL-STD-750 METHOD 1071 THE HERMETIC SEAL OF THE DEVICE SHALL ALLOW FINE LEAK OF NOT GREATER THAN 5×10^{-7} . GROSS LEAK SHALL BE TESTED IN ACCORDANCE WITH MIL-STD-750 METHOD 1071C.

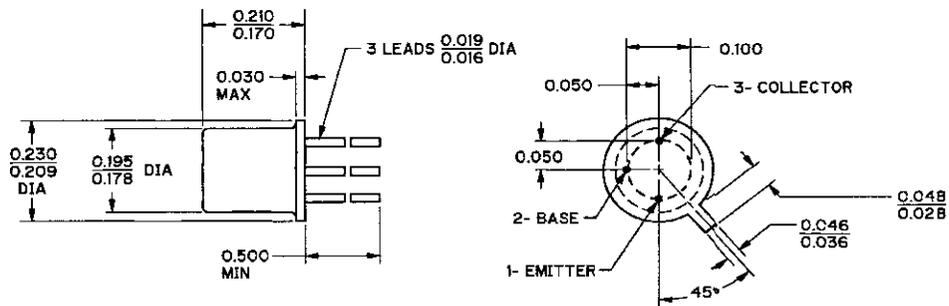
3- PRODUCTS SUPPLIED TO THIS DRAWING SHALL MEET QUALITY CONFORMANCE REQUIREMENTS IN ACCORDANCE WITH MANUFACTURER'S PROCEDURES FOR COMMERCIAL PRODUCTS.

4- ONLY THE ITEM DESCRIBED ON THIS DRAWING WHEN PROCURED FROM THE VENDOR LISTED HEREON IS APPROVED BY ARDEC FOR USE IN THE APPLICATION SPECIFIED HEREON. A SUBSTITUTE ITEM SHALL NOT BE USED WITHOUT PRIOR APPROVAL BY ARDEC.

5- IDENTIFICATION OF THE APPROVED SOURCE HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM DESCRIBED ON THIS DRAWING.

6- APPROVED SOURCE OF SUPPLY:
MICROPAC INDUSTRIES, INC.
OPTOELECTRONICS PRODUCTS DIVISION
725 E. WALNUT ST.
GARLAND, TX 75040
PART NUMBER: 61048-005-105

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	BY
	D	REDRAWN WITH CHANGE NOR W6D2007/860328 (ECP G7F3014/870417)	880915	OW/L
	E	NOR G6F2001 960228	960531	RLV
	F	NOR G6F2004 960711	960924	FET
	Q	NOR L9F2000 990614	990720	RLV



CHARACTERISTIC	SYMBOL	MIN	TYPICAL	MAX	UNIT
GAIN $V_{CC} = 5.0\text{VDC}$, $I_C = 10\text{mA}$	H_{FE}	50	65	100	
LIGHT CURRENT $V_{CE} = 5.0\text{V}$, $H = 5\text{mW/cm}^2$ from a tungsten source at a color temperature of 2870°K	I_L	.6	1.0	4.0	mA
DARK CURRENT $V_{CC} = 5.0\text{V}$, $H = 0$	I_D			50	nA
COLLECTOR TO EMITTER BREAKDOWN VOLTAGE $I_C = 100\mu\text{A}$	BV_{CEO}	50			V
EMITTER TO COLLECTOR BREAKDOWN VOLTAGE $I_E = 100\mu\text{A}$	BV_{ECO}	6			V
SATURATION VOLTAGE $I_C = 0.4\text{mA}$, $*H = 5\text{mW/cm}^2$	$V_{CE(SAT)}$.15	.3	V
LIGHT CURRENT RISE TIME $V_{CC} = 5.0\text{V}$, $I_L = 1\text{mA}$, $R_L = 100\Omega$	T_r		8		μsec
ANGULAR RESPONSE The angle between incidence for peak response and incidence for 50% of the peak response.	θ		45		deg

V_{CE} = COLLECTOR-EMITTER VOLTAGE
H = RADIATION FLUX DENSITY
R_L = EMITTER-GROUND RESISTANCE (OHMS)
V_{CC} = COLLECTOR VOLTAGE
I_C = COLLECTOR CURRENT
I_E = EMITTER CURRENT
mA = MILLI AMPS
VDC = VOLTS DC
nA = NANO AMPS
μS = MICRO SECONDS
μA = MICRO AMPS
nM = NANO METERS
cm = CENTIMETERS
mW = MILLI WATTS

DISTRIBUTION STATEMENT A
APPROVED FOR PUBLIC RELEASE;
DISTRIBUTION IS UNLIMITED.

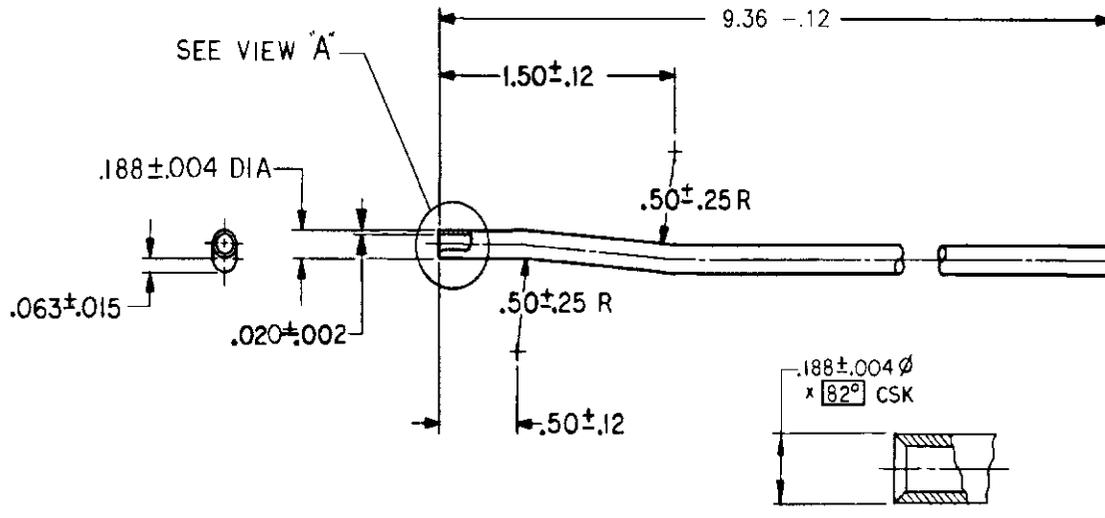
CURRENT DESIGN ACTIVITY CASE CODE 18200
U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PICATINNY ARSENAL, NEW JERSEY 07802-3000

SOURCE CONTROL DRAWING

PART NO. 9311610

PMIC		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTION	CONTRACT NUMBER		PICATINNY ARSENAL DOVER, NEW JERSEY
MECHANICAL PROPERTIES		DECIMAL 2 PL. 0 3 PL. 0	CONTRACTOR		SEMICONDUCTOR DEVICE, PHOTOTRANSISTOR, NPN
VP		THIRD ANGLE PROJECTION	DRAWN BY RAU	DATE 77-05-07	SIZE CODE IDENT NO.
YS			CHECKER	JEA	D 18203
KL			DESIGNING APPROVAL	L. A. FREY, JR	9311610
BA	9311494	M-130 GEN DISP	DESIGN APPROVAL	E. STEIN	SCALE NONE
BH		NEXT ASSY USED ON			PART W.
RM		APPLICATION			SHEET

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
-	ERRA7D250I REL	77-9-7	
A	NOR W8D2505	78-06-30	<i>[Signature]</i>
B	NOR W9D2522 / 79-09-14	79-11-28	<i>[Signature]</i>
C	NOR G6F2001 960228	960531	RLV
D	NOR G6F2004 960711	960924	FET
E	NOR L9F2000 990614	990720	RLV



NOTES:-

- 1- SPEC MIL-A-2550 AND ANSI Y14.5-1973 APPLY.
- 2- MATERIAL:-CORROSION RESISTANT STEEL (304), TYPE I, 1/4 HARD, SPEC MIL-T-5695. ALTERNATIVE MATERIAL:-CORROSION RESISTANT STEEL (304) ,SPEC MIL-T-6845.
- 3- PROTECTIVE FINISH:FINISH NO. 5.4.1 OF MIL-STD-171.

VIEW 'A'
NO SCALE

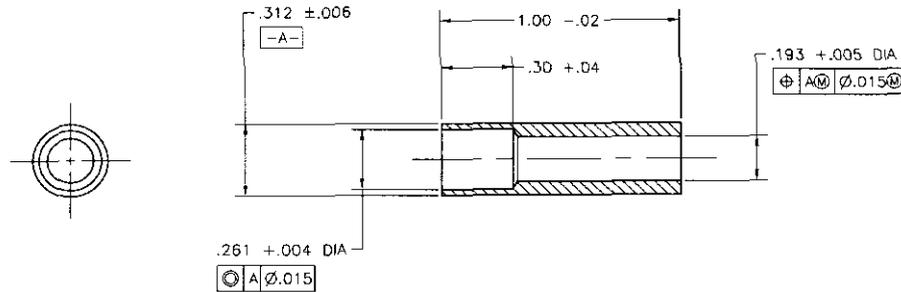
CURRENT DESIGN ACTIVITY CAGE CODE 19200
U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PICATINNY ARSENAL, NEW JERSEY 07806-8000

PART NO. 9311684

DISTRIBUTION STATEMENT A
APPROVED FOR PUBLIC RELEASE;
DISTRIBUTION IS UNLIMITED.

9311493		M-130 GEN DISP		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING 77-9-7		U.S. ARMY MUNITIONS COMMAND PICATINNY ARSENAL, DOVER, NEW JERSEY 07801	
NEXT ASSY		USED ON		TOLERANCES ON DECIMALS ±		DRAFTSMAN MWK		CHECKER <i>[Signature]</i>	
APPLICATION				FRACTIONS ± ANGLES ±		ENGR BWC		ENGR <i>[Signature]</i>	
						ENGR <i>[Signature]</i>		ENGR <i>[Signature]</i>	
								SIZE C	
								CODE IDENT NO. 19203	
								9311684	
								SCALE 2/1	
								UNIT WT.	
								SHEET	

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
-	ERRATA/250A REL	77-9-7	
A	NOR W9D2522 / 79-09-14	79-11-28	RLV
B	NOR G6F2001 960228	960531	RLV
C	NOR G6F2004 960711	960924	FET
D	NOR L9F2000 990614	990720	RLV



- NOTES:-
- 1 - SPEC MIL-A-2550 AND ANSI Y14.5-1973 APPLY.
 - 2 - MATERIAL:- CORROSION RESISTANT STEEL, TYPE 303, SPEC ASTM A 582.
 - 3 - PROTECTIVE FINISH: FINISH 5.4.1 OF MIL-STD-171.
 - 4 - DRILL POINT ANGLE PERMISSIBLE.

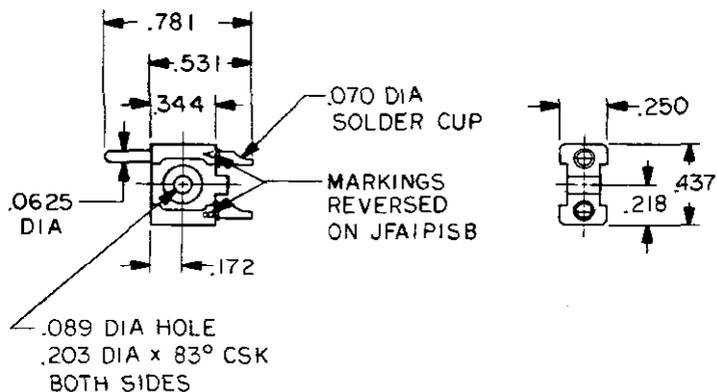
CURRENT DESIGN ACTIVITY CASE CODE 19203
 U.S. ARMY
 ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
 PICATINNY ARSENAL, NEW JERSEY 07806-5000

PART NO. 9311686

DISTRIBUTION STATEMENT A
 APPROVED FOR PUBLIC RELEASE;
 DISTRIBUTION IS UNLIMITED.

MECHANICAL PROPERTIES		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED		ORIGINAL DATE OF DRAWING 77-9-7		U.S. ARMY ARMAMENT COMMAND PICATINNY ARSENAL, DOVER, NEW JERSEY 07801	
YP		DIMENSIONS ARE IN INCHES		DRAFTER BWC	CHECKER RLV	ADAPTER, SENSOR	
TS		TOLERANCES ON DECIMALS *		ENGR BWC	ENGR RLV	SIZE CODE IDENT NO. D 19203 9311686	
ES		FRACTIONS * MILLIS *		ENGR BWC	ENGR RLV	SCALE 4 / 1 UNIT WT. SHEET	
2S				APPROVED			
WH	M-130						
RH	GEN DISP						
	NEXT ASSY						
	USED ON						
APPLICATION							

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
B	NORW8D2518/78-12-12 REPLACES REV A WITH CHANGE	79-03-18	<i>m om</i> <i>100</i>



NOTES:-

1- REQUIREMENTS:

- A-CURRENT RATING: 13 AMPS
- B- NO. OF CONTACTS: 2
- C- PIN CONTACTS: .062 DIA BRASS, GOLD PLATED
- D-SOCKET CONTACTS: SPRING TEMPER PHOSPHOR BRONZE, GOLD PLATED.
- E-ELECTRICAL DATA : DIELECTRIC WITHSTANDING VOLTAGE IS ONE MINUTE ELECTRIFICATION AT 2925 VAC.
- F- TERMINATIONS: .070 DIA SOLDER CUP WILL ACCEPT UP TO #16 AWG STRANDED WIRE.
- G-DIELECTRIC: MOLDED MELAMINE PER MIL-M-14 TYPE MME
- H-POLARIZATION: REVERSED PIN AND SOCKET ASSEMBLY FOR JFAIPISB

2-IDENTIFICATION OF THE SUGGESTED SOURCE HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM DESCRIBED ON THE DRAWING.

3-SUGGESTED SOURCE OF SUPPLY:

LITTON INDUSTRIES INC.
WINCHESTER ELECTRONICS DIV.
MAIN STREET & HILLSIDE AVE.
OAKVILLE, CT 06779
CODE IDENT NO. 81312*

PART NO.	MANUFACTURER PART NO.
9327759-1	JFAIPISB
9327759-2	JFAIPISB

SPECIFICATION CONTROL DRAWING

PART NO. SEE TABLE

		MECHANICAL PROPERTIES		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING 78-03-27		U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT COMMAND DOVER, NEW JERSEY 07801	
		YP		TOLERANCES ON DECIMALS *		DRAFTSMAN	CHECKER	CONNECTOR	
		TS		FRACTIONS * ANGLES *		ENGR <i>On</i>	ENGR		
		ELZ				ENGR <i>SD</i>	ENGR <i>yea</i>		
		RA						SIZE	CODE IDENT NO.
9327760	M130 GEN DISP	BH						C	19200
NEXT ASSY	USED ON	PH						SCALE 2/1	UNIT WT.
APPLICATION									SHEET

NOTICE OF INACTIVATION
FOR NEW DESIGN

INCH POUND

MIL-D-63123B(AR)

NOTICE 1

15 August 1997

MILITARY SPECIFICATION

DISPENSER ASSEMBLY

This notice should be filed in front of MIL-D-63123B(AR) dated 14 January 1985

MIL-D-63123B(AR) dated 14 January 1985 with Amendment 2, dated 4 January 1994 is inactive for new design and no longer used except for replacement purposes.

Preparing Activity:

Army - AR

* All environmental testing shall be conducted per MIL-STD-810C not MIL-STD-810E.

AMSC N/A

FSC 1095

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

INCH-POUND

MIL-D-63123B(AR)
AMENDMENT 204 January 1994

SUPERSEDING

AMENDMENT 1

22 October 1990

MILITARY SPECIFICATION

DISPENSER ASSEMBLY

This amendment forms a part of Military Specification MIL-D-63123B(AR), dated 17 December 1979, and is approved for use by the US Army Armament, Munitions and Chemical Command, and is available for use by all Department and Agencies of the Department of Defense.

PAGE 1

- * ~~2.1.1 Standards, Military: Delete "MIL-STD-810C" and substitute "MIL-STD-810".~~

PAGE 2

2.1.2: Add the following drawing under INSPECTION EQUIPMENT DRAWINGS:

"12589959 - BALLAST, FLARE"

PAGE 3

3.3.3 Output: Delete "5.0 ± .75 amperes DC" and substitute "5.25 ± 1.0 amperes DC".

- * 3.4.1 Helicopter vibration.

~~Line 3: Delete "MIL-STD-810C" and substitute "MIL-STD-810, Method 514.4, Category 7C".~~

Line 4: Delete the following: "The dispenser shall be vibrated ... flares for this test".

MIL-D-63123B(AR)
AMENDMENT 2

- * ~~3.4.2 Transportation vibration, line 3: Delete "MIL-STD-810C" and substitute "MIL-STD-810, Method 514.4, Basic Transportation, Category I".~~

PAGE 6

- * ~~3.4.3 Humidity, line 2: Delete "MIL-STD-810C Procedure I, (10 days)" and substitute "MIL-STD-810, Method 507.3, Procedure III".~~
- * ~~3.4.4 High temperature, line 2: Delete "MIL-STD-810C, Test Method 501.1" and substitute "MIL-STD-810, Test Method 501.3, Procedure II, Induced".~~
- * ~~3.4.5 Low temperature, line 2: Delete "MIL-STD-810C, Test Method 502.1" and substitute "MIL-STD-810, Test Method 502.3, Procedure II, Severe Cold".~~

PAGE 29

- * ~~4.5.2 High temperature, line 2: Delete "MIL-STD-810C, Test Method 501.1" and substitute "MIL-STD-810, Test Method 501.3, Procedure II, Induced".~~
- * ~~4.5.3 Low temperature, line 2: Delete "MIL-STD-810C, Test Method 502.1" and substitute "MIL-STD-810, Test Method 502.3, Procedure II, Severe Cold".~~

4.5.4 Helicopter vibration.

- * ~~Line 2: Delete "MIL-STD-810C Procedure IIC, ..." and substitute "MIL-STD-810, Method 514.4, Category 7C, ...".~~

Line 4: Delete "...with thirty (30) inert flares..." and substitute "...with thirty (30) ballast flares, Dwg. 12589959, (Preferred) or with thirty (30) inert flares...".

- * ~~4.5.5 Transportation vibration, line 2: Delete "MIL-STD-810C (5 and 6 Hz)" and substitute "MIL-STD-810, Method 514.4, Basic Transportation, Category I".~~

PAGE 30

- * ~~4.5.6 Humidity, line 2: Delete "MIL-STD-810C (10 days)" and substitute "MIL-STD-810, Method 507.3, Procedure III".~~

MIL-D-63123B(AR)
AMENDMENT 2

The margins of this amendment are marked with an asterisk or vertical lines to indicate where changes (additions, modifications, corrections, deletions) from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

Custodian:
Army-AR

Preparing activity:
Army-AR

(Project 1095-A271)

CONTRACT DATA REQUIREMENTS LIST

DD FORM 1423 (MECHANIZED)

CATEGORY: MISC SYSTEM/ITEM: DISPENSER ASSEMBLY
 TO CONTRACT/PR: P49SGBO2

1. SEQUENCE NUMBER		14. DISTRIBUTION	DRFT/REG/REPRO COPIES
2. TITLE OF DATA ITEM			
3. SUBTITLE			
4. DATA ITEM NUMBER			
5. CONTRACT REFERENCE			
6. TECHNICAL OFFICE	7. DD 250	8. APP CODE	9. DIST STATEMENT REQUIRED
10. FREQUENCY	11. AS OF DATE		15. TOTAL:
12. DATE OF 1ST SUBMISSION		13. DATE OF SUBSEQUENT SUBMISSION	
16. REMARKS			

1. A001		14. AMSTA-AR-ES (ECALS)	/ / / /
2. CONFIGURATION CHANGE CONTROL*			
3. ENGINEERING ACTIONS			
4. DI-CMAN-81554			
5. SECTION C			
6. AMSTA-AR-ES	7. NO	8. -	9. **
10. ASREQ	11. ---		15. TOTAL 0/ 0/ 0
12. ASREQ		13. ASREQ	

16. REMARKS
 PREPARE ENGINEERING ACTIONS IAW DI-CMAN-81544 AND SUBMIT ELECTRONICALLY VIA
 ECALS WORLDWIDE WEB PAGE [HTTP://EDMD4.PICA.ARMY.MIL/](http://EDMD4.PICA.ARMY.MIL/). *DATA INFORMATION PACKET
 **DISTRIBUTION STATEMENT WILL BE ASSIGNED AND IMPLEMENTED BY THE DOD CONFIG-
 URATION MANAGER. THE POC FOR ECALS IS LEE SADAUSKAS, AMSTA-AR-QAW, (973) 724-6626
 LEES@PICA.ARMY.MIL.

APPROVED BY: STEPHEN J HANSEN, SDMO, AMSTA-AR-QAD

DATE: 07/12/1999